

The
CHEMIST AND DRUGGIST

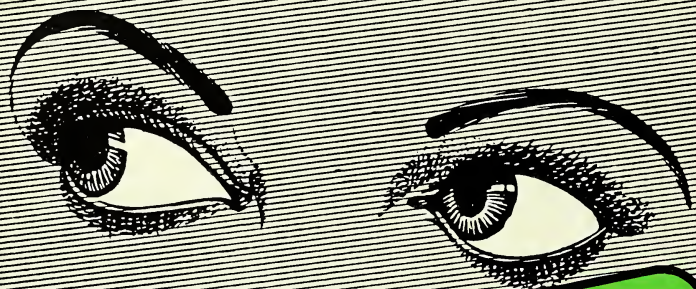
for RETAILER — WHOLESALE — MANUFACTURER

SEPTEMBER 20, 1952



BURGOYNE BURBIDGES

Established 1741. & COMPANY LIMITED, LONDON. E.6



Optabs

EYE LOTION TABLETS



OPTABS EYE LOTION TABLETS
are now available in the delightful new packing, 20 Tablets retail 1/9d. Optabs now keep perfectly. Send us your enquiries and if you have any old stock return it to us for—immediate replacement with the new pack free of charge—
Up to NOVEMBER 1st ONLY

BRITISH CHEMOTHEUTIC PRODUCTS LTD.

KEMTHEUTIC HOUSE, P.O. BOX 242 BRADFORD, ENGLAND

Telephone : 22005

Telegrams: Kemtheutic, Bradford

TO MANUFACTURERS WHO USE ADVERTISING

Maybe the market in which you sell is as hard to crack as a bank safe. But we doubt if it can be more difficult than the toothbrush and toothpaste markets. Both are over-supplied; desperately competitive. Introducing *any* new product into them is a trial of knowledge, energy, organization and trade confidence. For this reason the inside story of 'Pro' (the new, multi-tuft toothbrush) during the 7 months it has been on the market, is worth noting.

▲ Of course 'Pro' is first class merchandise, well packed and presented. And the standing of our principals—The Lambert Pharmacal Company, owners of 'Listerine'—helped. Nonetheless, the task of getting wide distribution from the 1st January when trade was at its most unenterprising all-time low was tough; tougher still when the leading established brands started to 'load' the trade by bonus schemes of 14- and even 15-to-the-dozen.

▲ Yet when the first advertisement appeared (as planned) on the 2nd April, a majority of 'A' and 'B' grade pharmacy outlets, many of the 'C's', most department stores and all of the principal chains stocked *and showed* 'Pro'.

▲ Thus advertising earned from the word go. Almost exactly the same thing happened with 'Amm-i-dent' Toothpaste which we were privileged to pioneer two years ago. 'Amm-i-dent' is now firmly established; 'Pro' is well on its way.

▲ If your product—new or already marketed—is equally first class and you are prepared to back it confidently with economic advertising so planned that, with our help, the utmost can be wrung from it, maybe we could render you a similar significant service. At the moment, we are well placed to develop a thoroughly good cosmetic range, a toilet soap of character, or a dental speciality.

▲ Other products, not competitive with those we already handle, would equally interest us. We are in fact ready to analyse any sales problem which may have inherent in it, but probably latent, merchandising opportunity capable of giving a long term lift to sales. Walter Crowe Ltd., Marketing Distributors, 3/4 Little Russell Street, London, W.C.1.

Telephones: Chancery 6101/3, 7051/2 (5 lines).

'PRO' TOOTHBRUSHES, 'LISTERINE' ANTISEPTIC, SPICERS A.I. TOILET ROLLS AND TISSUES, 'CLEARSPICS', SIMPSON'S FOOT OINTMENT, 'SILF', 'LINCTUS LOLLIES', 'VANAIRE', etc., etc.

Disprin overcomes the defects of both aspirin and calcium aspirin

The defects of aspirin are its acidity and low solubility. The defect of calcium aspirin, as generally prepared, is its liability to chemical breakdown and consequent contamination. By providing pure calcium aspirin in stable, soluble, palatable tablet form, 'Disprin' overcomes the defects of both aspirin and calcium aspirin, and combines the advantages of both.

Aspirin dosage can now be administered for its analgesic, antipyretic and anti-rheumatic effects in a complete solution which is both palatable and bland. Extensive clinical trials carried out in leading hospitals show that, even in large amounts given over prolonged periods, Disprin is unlikely to cause gastric or systemic disturbances, except in cases of extreme hypersensitivity.

Thus an obstinate and long-standing problem in aspirin therapy has been solved.

DISPRIN

REGD.

Provides stable, soluble, palatable calcium aspirin

In all conditions which call for up-to-date aspirin therapy, Disprin may be advised and recommended.

50 tablet bottle 3/4; 26 tablet bottle 2/-; flat pocket folders
8 tablets 9d. (all including Purchase Tax).

GROWTH FACTORS IN LIVER

It has been known for some years that liver contains growth factors in addition to those specifically identified. Laboratory evidence has shown that such factors are present in proteolysed liver (*Biochem. J.* 1952, **51**, 108). Animal experiments have shown that liver contains a substance, or substances which accelerate the growth of young animals. The clinical significance of these factors has yet to be finally determined (*Brit. med. J.* 1952, **1**, 1401), although it has been shown that a growth-stimulating effect can be obtained in apparently normal children (*Brit. med. J.* 1952, **1**, 1388). Where there is an increased nutritional requirement as in undernourishment, pregnancy, lactation and convalescence, the value of such substances is likely to be greater. Hepovite tablets each contain 0.5 gram. of proteolysed liver equivalent to 3 gram. of raw liver.

Hepovite

TRADE MARK

★ PROTEOLYSED LIVER TABLETS

*are available in containers of 24 and 500
(Each tablet is sealed in foil)*

FURTHER INFORMATION ON REQUEST FROM
MEDICAL INFORMATION DEPARTMENT, SPEKE, LIVERPOOL 19



MADE IN ENGLAND BY

EVANS MEDICAL SUPPLIES LTD

LIVERPOOL · LONDON · NEWCASTLE · SWANSEA

Hughes Charm

LADIES

HAIRBRUSH

retails at 12/9
(INC. P.T.)

PRICE LIST OF PERSONAL BRUSHES BY HUGHES

DESCRIPTION

RETAIL
SELLING
PRICE EACH
(INC. P.T.)
10/-

Luxury Ladies' Radial Hairbrush
Jewel Ladies' Radial Hairbrush,

pure bristle **24/6**nylon **11/9**

"Luxury 8" Dressing Comb (to match)

2/6

Satin-Glo Ladies' Hairbrush

10/9

Charm Ladies' Hairbrush

12/9

Toddlers' Child's Hairbrush

6/11

Debonair Military Hairbrush (in ivory, shell,
or ebony)

nylon, single **9/9**

" " " nylon, pairs **17/9 pr.**

" " " bristle, single **18/9**

" " " bristle, pairs **36/- pr**

Debonair 5" Comb (ivory or shell)

6d.

Mini-Kit Hair & Clothes Brush Set

21/-

Toothbrush, short-head nylon

1/-

" " " pure bristle **1/6**

In its superb style,
quality and value
the CHARM is typical of
every Hughes brush. You are
well advised to stock the
whole Hughes range
of personal brushes
and combs. **DISPLAY**
CASKETS.

Hughes BRUSHES
LTD

240/242 BATH ROAD, SLOUGH, BUCKS.

INDEX TO ADVERTISERS

Addis, Ltd.	xxiii
Adelaide Grey	xxviii
Albion Soap Co., Ltd., The	xxiv
Antigen, Ltd.	xxx
Armour Laboratories, The	22
Aspro, Ltd.	xxii
Bailey, R., & Son, Ltd.	xxvi
Beatson, Clark & Co., Ltd.	xi
Beechams (Northern), Ltd.	7
Berdoo & Fish	Col. Supp.
Bibby, J., & Sons	14
Biorex Laboratories, Ltd.	xxx
Birley's Antacid, Ltd.	32
Boots Pure Drug Co., Ltd.	27
Boutalls, Ltd.	xxli
Bovril, Ltd.	22
Bowens Camera Repair Service	Col. Supp.
Bristow, T. F., Ltd.	xxi
British Chemotheutic Products, Ltd.	Cover ii
British Dental Sticks, Ltd.	8
British Drug Houses, Ltd., The	9
British Dyewood Co., Ltd., The	ii
Burgoyne, Burbidges & Co., Ltd.	Front Cover
Burrough, James, Ltd.	Leader Page
Burroughs Wellcome & Co.	35
Cartwright, W. B., Ltd.	6
Cellucotton Products, Ltd. (Kotex)	viii
Cellucotton Products, Ltd. (Kleenex)	10, 11
Chilton Electric Products, Ltd.	vii
Ciba Laboratories, Ltd.	21
Clay & Abraham, Ltd.	xxxiv
Compressed Paper Packing, Ltd.	xi

Container Recovery Service	xii, xiii
Corn Products Co., Ltd.	xxxv
Cosmic Preparations, Ltd.	8
Cox, Arthur H., & Co., Ltd.	8
Cresswell Bros. Sponges	viii
Crosskills of Norwich	iv
Crowe, Walter, Ltd.	1
Cuticura Shaving Stick	xxviii
Daniel, Richard, & Son, Ltd.	13
Davenport, J. T., Ltd.	xxiv
Disprin	2
Distillers Co. (Biochemicals), Ltd.	25
Domestos, Ltd.	xix
"Elasto"	28
Electrophysiological Technique	xxviii
Evans, Adlard & Co., Ltd.	xiv
Evans Medical Supplies, Ltd.	3
Freder Bros. Paper Mills	xxxii
Freudentheil, Smith & Co.	Leader Page
Fryer & Co. (Nelson), Ltd.	xxii
Fulford, C. E., Ltd.	xxvi
Gibbs, D. & W. (U.K.), Ltd.	12
Gibson, Robert, & Sons, Ltd.	vi
Gillette Industries, Ltd.	xvi
Gnome Photographic Products, Ltd.	x
Golden, Ltd. (Tress)	xxxix
Goya	34
Graesser-Thomas, H. W., Ltd.	ii

(continued overleaf)

**Enterprising display
under glass provides
protection from
POLLUTION & PILFERAGE**

**FULL RANGE
FOR EVERY
PURPOSE**



**MADE &
DELIVERED
by**

WATERHOUSE
Makers of Fine Shop Fittings

BULL BRIDGE, ACCRINGTON, LANCs. Tel: ACCRINGTON 4238

INDEX (cont.)

Hamburger, M., & Sons	xiv
Harley, T., Ltd.	xv
Hatchwell Co., Ltd., The	xxii
Herts Pharmaceuticals, Ltd.	xxxvi
Hough, Hoseason & Co., Ltd.	ix
Howards & Sons, Ltd.	i
Hughes Brushes, Ltd.	4
Ingram, J. G., & Son, Ltd.	vi
International Laboratories, Ltd.	Leader Page
Jobling, J. A., & Co., Ltd.	30
Kay Bros., Ltd.	xxvi
Keldon, Ltd.	26
Kellys, John (London), Ltd.	ii
Kimpton Brothers, Ltd.	xxix
Lastonet Products, Ltd.	28
Leichner, L. (London), Ltd.	15
Leigh & Sons Metal Works	xiv
Lipton's Paper Mills, Ltd.	iv
London Commercial Electric Stores	xiv
Macdonald & Son, Ltd.	16
Manesty Machines, Ltd.	31
Mawson & Proctor, Ltd.	xx
Max Factor (Hollywood & London Sales), Ltd.	18, 19
May & Baker, Ltd.	20
Menley & James, Ltd.	xvii
Mentasol Toothpaste	xviii
Mountsun, Ltd.	iii

Niblett, C. P.	iv
Orridge & Co.	Col. Supp.
Owbridge, W. T., Ltd.	xxxiii
Pharmaceutical Laboratories Geigy, Ltd.	23
Phillips, Chas. H., Chemical Co., Ltd.	xxv
Pisco, Ltd.	x
Pitman, Sir Isaac, & Sons, Ltd.	iv
Potter & Clarke, Ltd.	17
Progress Shaving Brush Co., Ltd.	xxxii
Pure Products Soap Co., Ltd.	xxx
Rankin Bros. & Sons	Leader Page
Rexall Drug Co., Ltd.	28
Rose's Lime Juice	xxxiv
Samuelson, P., & Co.	iii
Scott & Bowne, Ltd. (Portex)	24
Scurr, C. A.	Col. Supp.
Sharp & Dohme, Ltd.	Cover iv
Surgical Hosiery Co., Ltd.	vi
Taylor, Edward, Ltd.	xxvii
Thompson & Capper Wholesale, Ltd.	33
Waide, Thos., & Sons, Ltd.	13
Wallis Laboratory, Ltd., The	Leader Page
Wander, A., Ltd.	29
Warrick Bros., Ltd.	36
Waterhouse, Ltd.	5
Webster, Isaac, & Sons, Ltd.	x
Whiffen & Sons, Ltd.	Cover iii
Wilson & Mansfield, Ltd.	ii
Zimmermann, Chas., & Co., Ltd.	v

For Chemists only

during September Cartwrights offer

a Special Bonus

on all orders for Moorland Antacid Indigestion Tablets

13 packets for the price of 12



This offer applies to RETAIL TRADE only
Send NOW for Special Bonus Order Form

On every dozen packets of Moorland Antacid Indigestion Tablets you order between September 1st and September 30th, you will receive one bonus packet. For one month we offer you 13 packets to the dozen. Moreover, you pay no Purchase Tax on the bonus—we pay that for you.

We make this offer to remind our chemist friends that Moorland Antacid Indigestion Tablets are—
a C.F. and P.A.T.A. line;
have always been sold to the public through chemists—and only through chemists;
are cheaper per dose than any other indigestion remedy.

Moorlands are an all-the-year-round best-seller. Over 34 million advertisements for Moorlands appear each month in Britain's newspapers. That's why it is always worth your while to stock display and sell Moorland Antacid Indigestion Tablets.

RETAIL PRICES IN CARTONS

Small size 1/1

containing 4 rolls of
10 tablets (40 tablets
equals 20 doses).

Large size 2/-

containing 8 rolls of
10 tablets (80 tablets
equals 40 doses).

W. B. CARTWRIGHT LTD., RAWDON, LEEDS

A GOOD PROFIT EARNER

Stock up to meet the seasonal demand

Autumn coughs and winter ailments increase the demand for VENO'S. In the next few months millions of people will be looking to VENO'S for protection. Don't run short. Order *now* adequate supplies of this trusted family remedy. Put VENO'S on the counter, in the window. You can't make too much of a profit-making line like . . .

VENO'S

LIGHTNING

COUGH MIXTURE

The family remedy with an all-year-round DEMAND

All enquiries to :—

BEECHAM (NORTHERN) LIMITED
ST. HELENS, LANCs.

Sole Distributors for Veno Drug Company Limited, St. Helens.



AN OLD FAVOURITE



IN
MODERN **PASTILLE** FORM

'ALL FOURS' CUBES

- Ol. Caryoph.
- Ol. Eucalyp.
- Ol. Anis.
- Ol. Menth. Pip.

2 oz. TINS @ **9/6** per dozen
PLUS 33 $\frac{1}{3}$ % P. TAX

IN SHOWOUTERS OF 1 DOZEN
SMART SALES PROMOTING
SHOWCARDS AVAILABLE

RETAIL **1/9** Per Tin
INCL. P. TAX

ARTHUR H. COX
===== & CO. LTD. =====

BRIGHTON SUSSEX

DENTAL STICKS ARE AVAILABLE

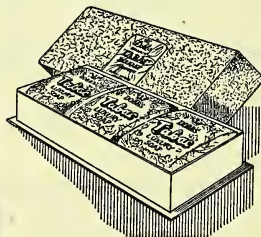
Dental Sticks are manufactured from various types of specially selected soft and hard woods and also from whalebone and are intended entirely for massaging the gums between the teeth.

BRITISH DENTAL STICKS LIMITED
80 ELSWICK ROAD
NEWCASTLE-ON-TYNE 4

Dobb's TABAC

PERFUME
TOILET-ESSENCE
LUXURY SOAP

*Price List and
samples on request.
Special Bonus-terms.*



*From your
wholesaler
or direct from
the Manu-
facturers :*

DOBB'S
OF LONDON
Telephone:
ARChway 6543

192 SEVEN SISTERS ROAD, LONDON, N.4

Preferably B.D.H.

SEX HORMONES

Recent introductions

'OESTROFORM' AQUEOUS

Œstradiol Monobenzoate B.P.
in Aqueous Suspension

'LUTOFORM'

Progesterin B.P. in Aqueous Suspension

'TESTOFORM'

Testosterone Propionate B.P. in
Aqueous Suspension

'MEPILIN'

Tablets containing Ethinylœstradiol
0.01 mg. and Methyltestosterone 3 mg.

ANDROGENS

Testosterone Propionate B.D.H.
Methyltestosterone B.D.H.

PROGESTOGENS

Progesterin B.D.H. Ethisterone B.D.H.

ŒSTROGENS

'Estigyn' (*Ethinylœstradiol B.D.H.*)
'Oestroform' (*Œstradiol Monobenzoate B.P.*
Œstrone B.P.) Dienœstrol B.D.H.
Stilbœstrol B.D.H. Hexœstrol B.D.H.

ANDROGEN AND ŒSTROGEN (combined)

'Mepilin'

GONADOTROPHINS

'Gonan' 'Serogan'

*Descriptive literature on any of the above products
will be forwarded to pharmacists on request*

THE BRITISH DRUG HOUSES LTD. LONDON N.1

DAILY EXPRESS

No. 15,267

THURSDAY SEPTEMBER 24, 22 1952

CONTROLLING PARANORMAL
LORD, REVEALS HOW

Weather: Wind

STORMS 100-mile rain belt
over Britain

ARMOUR

Nylon vests 19/6
Kerry, 2/10

22/10

2,000

**BE READY FOR THIS HALF
PAGE IN "DAILY EXPRESS"**
(Circ. over 4½ million) **SEPT 25**

*With Advertising this BIG
KLEENEX MEANS BUSINESS!*

- Time your Kleenex* Display for "Kleenex Day"! Remember the date: September 22nd—the start of the biggest advertising campaign in the history of tissue handkerchiefs in Britain. Watch for the "Daily Express" half-page, the large spaces in other Nationals, in leading magazines. So make it a big display for bigger business, repeat business, faster sales every day!

*Reg. T.M.

KLEENEX ON YOUR COUNTER MEANS MONEY IN YOUR POCKET

- Kleenex is the only tissue that "pops up one-at-a-time"
- Kleenex is the only tissue that gives 75 pulls for 1/-

Made in England by Cellucotton Products Ltd., 33 Aylmer Parade, N.2

ORDER THROUGH YOUR WHOLESALE TODAY!

		Retail Price
150	ECONOMY SIZE TISSUES (75 Pulls)	1/-
200	REGULAR SIZE TISSUES (100 pulls)	2/-

Japs fr

Korean post

TOKYO, Sept.

The British

Korean post

Korean post

Korean post

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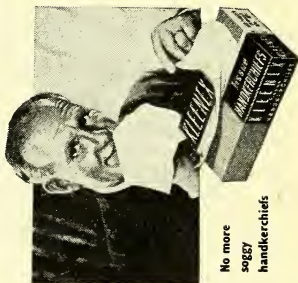
No more sore
noses ...

KLEENEX is back!

Feel how Kleenex® soothes your nose during a cold. See how Kleenex holds firm, won't fail. How Kleenex protects your nose from unsightly redness. The perfect combination of *uniform softness—uniform strength—uniform quality!*

- A clean, downy-soft handkerchief for every blow.
- Use just once, then destroy—germs and all.
- Five times more absorbent than cotton.
- No more unpleasant handkerchiefs to wash.
- No more handkerchief laundry bills to pay.
- Pops up one-at-a-time—not a handful.

So many other uses too!



No more
soggy
handkerchiefs



No more
germ-filled
handkerchiefs



The only tissue that
"pops up one-at-a-time"

150 TISSUES

(12 economy size double handkerchiefs)

200 regular size tissues 2½" (100 double handkerchiefs)

Made in England by Cellucotton Products

Limited, London, N.2

Reg. T.M.

Here's one of the exciting advertisements in the
HUGE NEW CAMPAIGN FOR
Gilbs
S.R. TOOTHPASTE

GET ME SOMETHING I CAN **CHEW!**



The grizzly's natural foods are tough and hard—foods that need real chewing. That, in a nutshell, is why grizzlies don't get toothache.

All our foods are soft. So soft, they let the gums get weak and liable to infections. And more teeth are lost through gum infections than through decay—that is an established dental fact.

WHITENESS IS NOT ENOUGH...

Just keeping your teeth white is not enough. You must also protect your gums against these infections.

Gilbs SR does this double job for you. SR keeps your teeth white—really white and sparkling clean. And it toughens up your gums to fight gum infections. For it contains Sodium Bicarbonate (SR), the actual substance dentists use to treat infected gums.

Brush with SR, and you are making your gums tough—the way the grizzly makes his by constant chewing of hard tough foods.

Don't let gum troubles spoil your smile. See your dentist twice a year and brush teeth and gums with SR twice a day.



Freshstable — with SR!

That's wonderful, isn't it? When you use SR twice a day, you are brushing your teeth and gums with the actual substance dentists use to treat infected gums.

WHITE TEETH NEED HEALTHY GUMS

GUM TROUBLES

— the facts!

This means—the soft foods we eat. Soft foods mean soft gums. What happens? The constant scratch we soft gums can allow infection to start from the bacteria ever-present in the mouth.



Infection starts here. It destroys these fibers that hold the teeth in the gums, leaves the teeth loose.

If your gums are sore and tend to bleed, put your dentist at ease.

The answer: Eat plenty of crisp, cleansing foods such as apples, celery, radish. And brush teeth and gums twice a day with Gilbs SR to stimulate the gums, make them tighter, firmer.



Sodium Bicarbonate (SR) is used by dentists for cleaning up infected gums. SR actually makes your gums tighter, firmer.

Gilbs
S.R.
FOR BOTH



This campaign is in **LARGE** dominating spaces in the National Press, such as powerful $\frac{1}{2}$ -pages in the **DAILY EXPRESS**

(guaranteed net sales of over 4,000,000!)

FOR CHEMISTS



DRUGS

SUNDRIES

Manufacturing Chemists

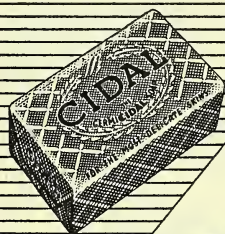
**PILLS • TABLETS
PROPRIETARIES**

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)
BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

Creative printing
FOR OVER 70 YEARS



THOMAS WAIDE & SONS LIMITED
KIRKSTALL HILL LEEDS.5.



first came **CIDAL**
the new toilet soap that
contains 2% Hexachlorophene

NOW COMES



CIDAL Cream Shampoo also contains 2% Hexachlorophene—the ingredient with wonderful germicidal properties. It promotes a clean, healthy scalp and, in conjunction with its super-fatted cream, helps to keep the hair soft, gleaming and attractive. CIDAL Shampoo has a rich cleansing lather and is very economical in use. Advertising to the public has begun.

**STOCK UP NOW
 WITH CIDAL CREAM
 SHAMPOO AND TAKE
 ADVANTAGE OF THE
 GENEROUS
 TRADE TERMS**



Write for full details to Sales Department,
 J. BIBBY & SONS LIMITED, KING EDWARD STREET, LIVERPOOL 3

NYLON SHEER COSMETICS

An entirely new make-up base



LEICHNER

VISION KLEAR

Created for the Stars of Film and Television

This is a soft liquid cream of a NYLON SHEER TEXTURE which imparts a translucent clarity and makes the skin look radiantly alive without any trace or suspicion of artificiality.

VISION KLEAR successfully resists exposure to the intense heat and arduous conditions of Television Studio Work, and this identical product is now offered

**AS THE PERFECT FOUNDATION
FOR WOMEN'S EVERYDAY MAKE-UP**

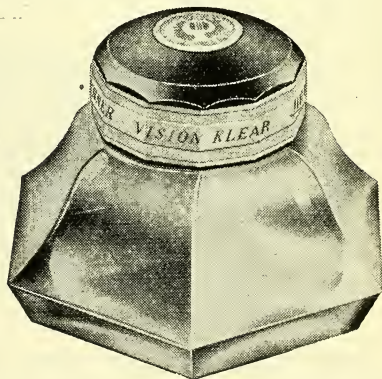
Retail Price 5/10 Incl. P.T.

Attractive display material, showcards with charming photographs of Miss Elizabeth Allan, and pamphlets giving details of this new base, are available.

Please send your order to :—

**L. LEICHNER (London) LTD.,
LEICHNER HOUSE,
30/32 ACRE LANE,
BRIXTON • S.W.2**

Telephone : BRixton 1166



Don't Forget

in placing your orders for dispensing sundries for the coming months, that

Certor CORKS

are a good dependable line, used by large numbers of chemists.

WHEN YOU ARE BUSY in your dispensary in the winter months you must be certain that your sundries are up to standard. This applies to corks as to other lines.

With Certor Corks you can be sure of quality, and know at the same time that you are paying a keenly competitive price.

Available in two grades—*Standard and Best*

PRICES

No.	Oz.		Standard Gross		Best Gross
3	1	2/1	5 - grs. bags	3/-	3 - grs. bags
4	2-4	2/6	"	3/9	"
5	4-6	2/9	"	4/-	"
6	6-8	3/-	"	4/3	"
7	8-10	3/4	"	4/9	"
8	12	3/11	3 - grs. bags	5/3	"
9	16	4/9	"	6/6	"
10	20	5/3	"	7/6	"

MACDONALD & SON LTD., HOPE MILLS, POLLARD ST., MANCHESTER

**Show
these
NOW as
press
advertising
boosts
sales!**

As already announced, Potter & Clarke's new Sales Policy concentrates upon twelve popular lines which are available now only through wholesalers.

Potter's

are also making a "big splash" from mid-September onwards with

**BIG-SPACE ADVERTISING
ON A NATIONAL SCALE** for their two

mass-sellers POTTER'S CATARRH PASTILLES and POTTER'S ASTHMA REMEDY. In daily and weekly newspapers and the big-circulation magazines, carefully-planned advertising campaigns will keep on getting results.

Sales-aids like the eye-catchers shown below help to round off the good work. They are ready for you NOW!



This striking display box holds 1 doz. tins of Potter's Catarrh Pastilles, retailing at 1/9d. a tin. Trade price 11/- a doz.

1 doz. tins of Potter's Asthma Remedy are displayed in this coloured container. Retail price is 3/- a tin. Trade price 22/- a doz.

**THROUGH
WHOLESALE
only.**



POTTER & CLARKE LTD

RIVER ROAD · BARKING · ESSEX

Telephone: RIPpleway 3041



NOTE NEW ADDRESS

A Beauty Promise Fulfilled!

Following the unprecedented success of their greatest-ever conception...

the 'fresh, young, natural look'

Max Factor announce an even more gigantic advertising campaign to bring

YOU

Extra Sales...

Extra Profits!

In the Spring Max Factor made a beauty promise... to bring to every girl, every woman in your district, the secret of the "Fresh, Young, Natural Look"... promised to support it with the largest-ever advertising campaign in Max Factor history. Fulfilling this promise, the "Fresh, Young, Natural Look" has gone from strength to strength... adopted by millions of beauty conscious women... taken up by famous Beauty Editresses. And now, Max Factor promise you more! ... sustained nation-wide advertising — even more intensive than before—to build success upon success.

LINK YOUR MERCHANDISING AND DISPLAY IDEAS

MAX FACTOR, HOLLYWOOD & LONDON (SALES) LTD.,

Between now and the end of the year, a greater number of advertisements per day... per week...per month than ever before in Max Factor history

Continuing their promised support, Max Factor now announce yet another vast campaign of "Fresh, Young, Natural Look" advertising, even more intensive than the Spring campaign which launched this spectacularly successful promotion. Hundreds upon hundreds of large-space insertions will appear in the most important women's journals, weekly magazines and national newspapers in Great Britain. Continuous, powerful, cumulative publicity which your customers will not . . . cannot miss.

DOMINANT COLOUR ADVERTISEMENTS IN ALL THESE PUBLICATIONS

Woman, Woman's Own, Picture Post, Woman's Xmas Extra, Modern Woman, Vogue, Vanity Fair, Homes & Gardens, Britannia & Eve, Harper's Bazaar, Heiress, Vogue Beauty Book, Bandwagon, Courier.

LARGE SPACE BLACK & WHITE ADVERTISEMENTS IN THESE MAGAZINES

Woman's Weekly, Woman's Illustrated, Picturegoer, Housewife, Modern Woman, Vogue, Vanity Fair, Britannia & Eve, Picture Show, Home Notes, Home Chat, True Story & True Romance, Silver Star, Lucky Star, Glamour, Secrets, Family Star, Red Letter, Red Star Weekly, My Weekly, Weekly Welcome, Photoplay, Danceland, Dance News Weekly.

SPECIAL POSITION ADVERTISEMENTS IN THESE NATIONAL NEWSPAPERS

News of the World, People, Sunday Pictorial, Daily Mirror, Sunday Express, Reveille, Daily Herald, The Star, Evening Standard, Sunday Empire News, Jewish Chronicle, Thomson's Weekly News, People's Friend, People's Journal, Belfast Telegraph.

Max Factor's
Face Powder
gives you the finishing
touch of loveliness...

Max Factor's
Pan-Stik
helps to your complexion
the glamorous foundation of the
fresh, young, natural look!

Max Factor's
Pan-Cake
will give your complexion that
fresh, young, natural look!

WITH THIS *Greatest-ever Beauty Theme!*

16, OLD BOND STREET, LONDON, W.1.

M&B

symbol of quality

Experience gained in the manufacture of a wide range of pharmaceutical chemicals for more than half a century has enabled May & Baker to establish and maintain standards of purity and uniformity which are recognised and appreciated by pharmacists throughout the world.

MAY & BAKER LTD
DAGENHAM **ESSEX**

ASSOCIATED HOUSES · BOMBAY · LAGOS · MONTREAL · PORT ELIZABETH · SYDNEY · WELLINGTON

Branches and Agents throughout the world

PHA 133

**IMPROVEMENT
OF BLOOD SUPPLY**

is the basis of treatment in

**MUSCULAR RHEUMATISM
FIBROSITIS, LUMBAGO**

TRAFURIL CREAM

produces

**RAPID AND PROLONGED
INCREASE IN LOCAL BLOOD SUPPLY**

The soothing warmth
reduces pain and promotes healing

Non-irritant · Non-greasy · Odourless

Economical

Tube of 20 g. (3/-) Jar of 1 lb. (39/-)
Retail Discount 33½%: Exempt from Purchase Tax

CIBA

*'Trafuril' is a registered trade mark denoting the
tetrahydrofurfuryl ester of nicotinic acid: Reg. user*

**CIBA LABORATORIES LIMITED
HORSHAM · SUSSEX**

Telephone: Horsham 1234

Telegrams: Cibalabs, Horsham

GLANOID

LIVER AND YEAST CONCENTRATE

Combining Liver Extract,
Yeast, Vitamins B₁ and B₂

AN IDEAL TONIC

HASTENS CONVALESCENCE
AND HELPS OVERCOME
LASSITUDE, FATIGUE AND
MALAISE

PACKED IN 4 oz., 8 oz.,
and 16 oz. BOTTLES

DISPENSING PACKS
40 oz., 80 oz. and 1 gallon

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD)

LINDSEY STREET, LONDON, E.C.1

Telephone: Clerkenwell 9011

Telegrams: "Armosata-Phone," London

SUCCESS OF *NEW* BOVRIL WEANING FOOD



4 VARIETIES

BEEF AND TOMATO
BEEF AND CARROT
BEEF AND SPRING
CABBAGE
BEEF AND MIXED
VEGETABLES

*Each flavour wrapped in
different coloured foil
and wax paper wrapper.*

The makers of Bovril have been proved right. They were convinced that mothers wanted a new type of Weaning Food. They consulted baby specialists, elaborated a formula, tested it through a group of hospitals, and recently launched the new product.

Bovril Brand Triturated Beef & Vegetable Weaning Food is accepted and recommended by doctors and clinics and is selling fast over chemist's counters.

MOTHERS BUY BOVRIL WEANING FOOD because :

- Baby's meal can be made in one minute.
- The prepared food is an easily digested soft and creamy purée.
- There's no possibility of food-infection.
- It is very economical, a meal for a four-month-old baby costing only $\frac{1}{2}d$.
- It is backed by large scale, large space national advertising.

BOVRIL BRAND Triturated Beef & Vegetable

Weaning RETAIL PRICE
Food **6^D**
4 CUBE PACKET

For full particulars of trade terms please write to :—
BOVRIL LIMITED, OLD STREET, LONDON, E.C.1.

BUTAZOLIDIN

a powerful new antirheumatic

THE first clinical reports on Butazolidin show that the drug "as an anodyne in cases of rheumatoid arthritis is quite exceptionally effective,"¹ and that the relief of pain and stiffness that followed its use "was almost constant and in some instances dramatic."²

A highly active preparation in a wide range of rheumatic conditions, Butazolidin is effective in acute phases of rheumatic disease and in chronic cases. Diminution of pain and increased freedom of movement are strikingly noticeable, resulting in a marked improvement in the well-being of the patient.

Butazolidin (3, 5-dioxo-1, 2-diphenyl-4-n-butyl-pyrazolidine) may be administered orally or parenterally. The tablets are formulated to disintegrate in the small intestine, thus obviating any risk of irritating the gastric mucosa. Literature is available on request.

1. J. P. Currie, *Lancet*, July 5, 1952, p. 15

2. F. Bach, *Lancet*, July 12, 1952, p. 92



ANALGESIC · ANTIPYRETIC
ANTI-INFLAMMATORY

Tablets : 0.2 gm., containers of 20, 50 and 100. Dispensing packs : 100 and 500.
Ampoules : 5 c.c. boxes of 5 and 50.

A Geigy medical announcement

PHARMACEUTICAL LABORATORIES GEIGY LTD.,

Rhodes,

Middleton,

MANCHESTER

PH. 45c

Special Notice

★

PORTEX

MEDICATED

PLASTIC SKIN

★

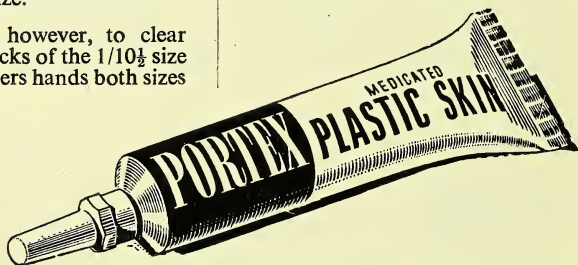
In order to avoid an increase in the price of the existing 1/10½ size tube we have introduced a new smaller size retailing at 1/6. We are therefore discontinuing the 1/10½ size from now on and all future orders will be filled with the new 1/6 size.

In order, however, to clear remaining stocks of the 1/10½ size tubes in retailers hands both sizes

will continue to be featured in our advertising for the present.

If a customer requires a larger quantity there is still the 56 cc bottle with brush applicator at 3/9 including Purchase Tax.

NEW PORTEX TRADE TERMS:



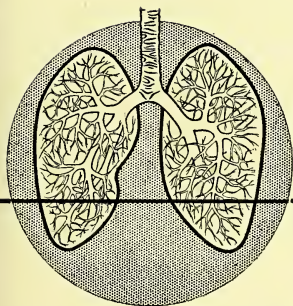
	<i>Consumer Price including Tax</i>	<i>Purchase Tax Per dozen</i>	<i>Best Terms Carriage Paid Direct Parcels</i>
Tube -	1/6	3/7 ¹/₅	9/7
Bottle -	3/9	9/-	24/-

SCOTT & BOWNE LIMITED, 50 UPPER BROOK STREET, LONDON, W.1

STREPTOMYCIN DC(B)L

in vials containing the equivalent of 1 and 5 grammes streptomycin base

STREPTOMYCIN DC(B)L is a highly purified and potent form of an antibiotic produced by *Streptomyces griseus*. It is in the form of the sulphate. This salt of streptomycin is now widely used in the treatment of tuberculous infection. It may be supplied when "Streptomycin" without further description is prescribed. *



Also available :
DIHYDROSTREPTOMYCIN DC(B)L
vials of 1 and 5 grammes.

Distributed by :

ALLEN & HANBURY LTD.
BRITISH DRUG HOUSES LTD.
BURROUGHS WELLCOME & CO.
EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

Manufactured by

THE DISTILLERS COMPANY
(BIOCHEMICALS) LIMITED

SPEKE

LIVERPOOL

* *Corrigenda, July 1951
to B.P. Addendum 1951.*

Good news

about Perivale Chilblain Ointment

LOWER PRICE • BIGGER SALES!

Here's a success story — ours and *yours!* From a War Office investigation during the war a remarkably successful formula for chilblains resulted. It was

SO GOOD that we decided to market it to the general public under the name of Perivale Chilblain Ointment. Demand grew rapidly, and is now

SO GREAT that we have been able to pass on the saving in costs to the public,

SO ENCOURAGING EVEN BIGGER SALES!

*The new prices, from September 1st, 1952
are as follows:*

RETAIL 1/10 per tube (including P.T.)

TRADE . . . 12/- per doz. (plus 4/- per doz. P.T.)

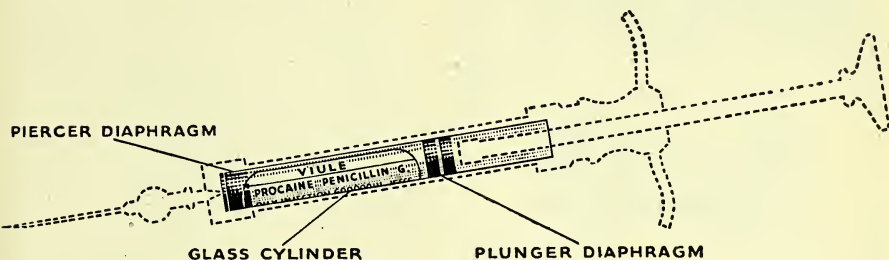
PERIVALE **CHILBLAIN OINTMENT**

*Can be included with other Keldon lines to qualify for
the usual generous quantity discounts.*

KELDON LTD • WADSWORTH ROAD • PERIVALE • MIDDLESEX

'Viules'

Single-dose injections in disposable cartridges



A new and important development in injection technique

A new and improved injection technique has been made possible by 'Viules', medical cartridges which have been introduced after considerable research and experiment by BOOTS PURE DRUG CO. LTD.

'Viules' are single-dose containers of stable sterile solutions and consist essentially of a cylinder of special glass sealed at both ends by rubber diaphragms; when inserted in a special all-metal syringe* one diaphragm acts as a plunger and the solution is expelled by means of a piercer needle through the other diaphragm. The cartridge therefore is a disposable syringe barrel containing the sterile solution ready for injection and offers the following advantages over conventional injection technique *at no greater expense*:-

1. Ready for immediate use.
2. No syringe breakage.
3. Sterilisation procedures reduced to a minimum.
4. Ease of injection.
5. Ideal in emergency.

The introduction of 'Viules' is a significant advance in the administration of injection

solutions. The risk of syringe-transmitted infection is reduced and the cleaning, sterilisation and lubrication of glass syringes is obviated.

The following range of 'Viules' is now available; further additions are to be made shortly:-

<i>Atropine Sulphate</i>	gr. $\frac{1}{100}$	(1 c.c.)
<i>Methyl Amphetamine</i>	30 mg.	(1.5 c.c.)
<i>Morphine Sulphate</i>	gr. $\frac{1}{2}$	(1 c.c.)
<i>Morphine Sulphate</i>	gr. $\frac{1}{3}$	(1 c.c.)
<i>Nicotinamide</i>	50 mg.	(1 c.c.)
<i>Nikethamide, B.P.</i>		(2 c.c.)
<i>Pethidine Hydrochloride</i>	50 mg.	(1 c.c.)
<i>Pethidine Hydrochloride</i>	100 mg.	(2 c.c.)
<i>Procaine Penicillin</i>		
(Only Injection)	600,000 units	(1.5 c.c.)

All available in carton of 6 and 100 cartridges.

*A suitable all-metal syringe for use with 'Viules', known as the 'Mitrex Syringe', is manufactured by the Medical & Industrial Equipment Co. Ltd.

Prices and further information concerning this new development are available from The Wholesale & Export Department, Boots Pure Drug Co. Ltd., Nottingham, England. Tel.: Nottingham 45501. London Sales Office: 71 Fleet Street, London, E.C.4. Tel.: Central 0111.





Our illustrations show a few of the larger-selling Rexall Preparations with 'crownings' to assist in making a sales-compelling display.

These aids to window shows are proving remarkably popular and productive in securing extra sales.

If there is no existing Rexall Agency in your district why not write and ask for details? Your enquiry will receive immediate attention.

REXALL DRUG COMPANY LIMITED
KIRKEWHITE STREET, NOTTINGHAM

Show 'Elasto'—

Elasto
THE BIOCHEMIC TABLET
It Sells on Sight!

ELASTO advertising is widespread and consistent. A steady demand for this product is being created at your very door. Are you taking full advantage of this opportunity for new business created in your area by this vigorous campaign? 'Elasto' sales-aids displayed in your window or on your counter will convert the 'prospect' we have created into a customer for you. *And remember there is ONE SHILLING and SEVENPENCE PROFIT on each sale!*

Show material free on request

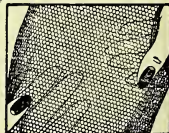
NEW ERA LABORATORIES LTD.

CECIL HOUSE • HOLBORN VIADUCT • LONDON

**BEST SELLER
BY FAR...**

Lastonet has become easily the most popular surgical stocking on sheer merit. Get the most out of this expanding trade by making a bold show of Lastonet display material and keeping a stock of measurement forms. Both are available on application.

**MADE ONLY
TO MEASURE**



Lastonet
E-L-A-S-T-I-C
FEATHERWEIGHT NET STOCKING

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LASTONET PRODUCTS LTD., Carn Brea, Redruth, Cornwall



A Product
of the
'Ovaltine'
Research
Laboratories



On the
PATA

A. WANDER LTD.,
42 Upper Grosvenor Street,
Grosvenor Square,
London, W.1

VIMALTOL

A QUALITY PRODUCT OF MODERN NUTRITIONAL SCIENCE

'VIMALTOL' is a concentrated vitamin food, formulated by and prepared under the control of the 'Ovaltine' Research Laboratories — which are actively investigating problems in nutrition and dietetics. They bring to its manufacture a high degree of scientific knowledge and a meticulous standard of hygiene.

'Vimaltol' contains malt extract, yeast, halibut liver oil, vitamins and iron. Every ingredient used is rigidly tested for purity and quality, the final product being accurately standardized for vitamin content.

'Vimaltol' provides valuable nutrients of undoubted assistance to infants, fast-growing children, nursing mothers and to those whose diet is inadequate or unbalanced. It helps to build up strength, weight and the natural powers of resistance. 'Vimaltol' is highly palatable — a decided advantage when recommending it for children.

CHEMISTS EXHIBITION

Sept. 29th — Oct. 2nd.

Royal Horticultural Hall

Welcome to our Stand No. 32

T.21



Standardized to contain in each oz.
Vitamin A, 1420 i.u.; Vitamin D, 710
i.u.; Vitamin B₁, 0.35 mg.; Vitamin
B₂ (Riboflavin), 0.2 mg.; Niacin (P.P.
Vitamin), 2.8 mg.; Iron, 3.3 mg. in a
readily assimilable form.

'PYREX'

Regd. Trade Mark

BRAND

Laboratory and Scientific Glassware

A boro-silicate glass of low alkali content, 'PYREX' Brand Glassware resists attack from all ordinary reagents.

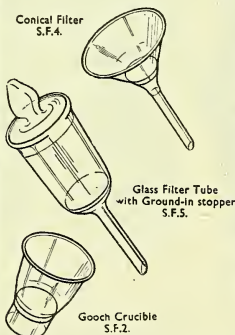
Its low coefficient of expansion enables 'PYREX' Brand apparatus to be made with thicker, stronger walls, thus reducing risk of breakage, while retaining a very high resistance to the effects of sudden temperature changes.

A simple but very effective system ensures accurate calibration of 'PYREX' Brand Graduated Glassware, to NPL, Class A or Class B Standards as required.

The foregoing properties offer very sound reasons for using 'PYREX' Laboratory and Scientific Glassware, on grounds both of efficiency and economy.



Buchner Filter
S.F.3.



Conical Filter
S.F.4.

Glass Filter Tube
with Ground-in stopper
S.F.5.

Gooch Crucible
S.F.2.

'PYREX' Brand SINTERED GLASSWARE

The actual filter discs are composed entirely of ground 'PYREX' Brand Glass, fused into various filtering vessels, the whole unit being resistant to the effects of sudden heat and cold. The filter discs are produced in varying standards of porosity, available in five grades... from average pore diameter 120 microns to 1.3 microns. This 'PYREX' Brand Sintered Glassware provides perfect filtering for all dispensary and laboratory purposes. You will find this system of filtering infinitely superior to the old-fashioned filter papers, both in operation and in actual results.

S 103 C

To Messrs. James A. Jobling
and Co. Limited.

Please send us illustrated
catalogue of 'PYREX' Brand
Laboratory and Scientific
Glassware.

Name

Address

JAMES A. JOBLING and CO. LTD.

Wear Glass Works Sunderland

The original and only makers of 'PYREX' Brand Glass in the United Kingdom.

MANESTY

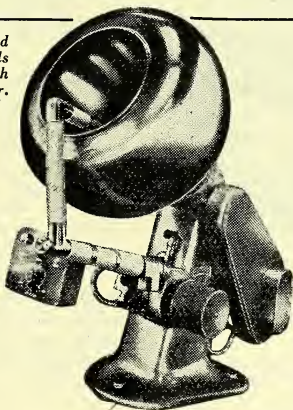
TABLET-MAKING MACHINERY

Known for its excellence throughout the world

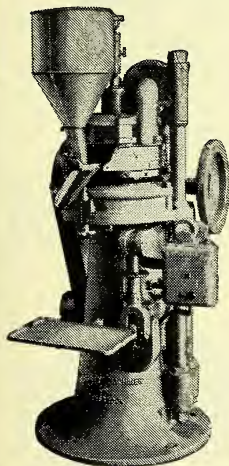
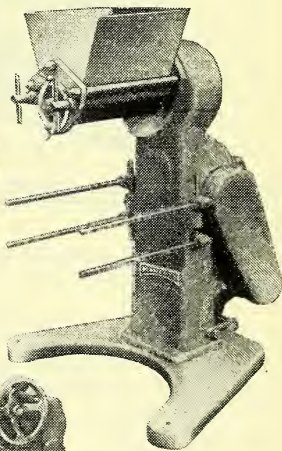
More and more tablet makers are turning to MANESTY precision-built tablet-making machinery because of its excellence in design and construction. MANESTY machinery is used in over 60 countries. Each machine is the product of British skill and craftsmanship and results from the long and specialised experience of the MANESTY organisation. The resources of the MANESTY research and technical departments are at the disposal of manufacturers faced with problems of tablet production.

Have you this book? "Tablet Making"—An authoritative volume by A. Little & K. A. Mitchell. 121 pp. 41 illus. 25 formulae. Cloth bound 15/- net. Post free.

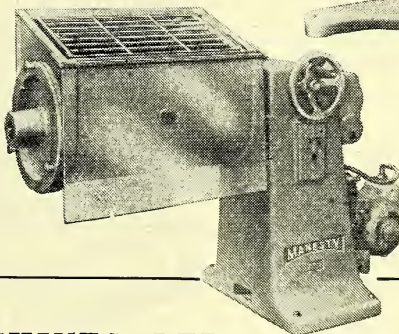
Right: CP2 Vari - Speed Coating Pan. Rotation speeds 12-36 r.p.m. Equipped with self-contained hot air blower. 30" pan.



Below: Rotorgran Oscillating Granulator. Capacity 150 lb. moist powder per hour; 1300 lb. dry powder per hour.



Above: D3A Rotary tablet machine. Fully guarded. Constant or variable speed. Output 346 per min. Size up to 1" diam.



Left: "H" Stainless Steel Mixer. Powder Capacity 100 lb. Transparent plastic lid. Safety guard.

MANESTY MACHINES LTD. DEPT. 5 SPEKE, LIVERPOOL, 19

Telephone: Hunts Cross 1972 Telegrams: Manesty, Liverpool 19

TABLET MACHINES • COATING PANS • GRANULATORS • MIXERS • AUTOMATIC WATER STILLS

NOW—Birley's Antacid TABLETS



—AS WELL AS BIRLEY'S ANTACID POWDER!

Here's the brand new Birley's product your customers have been asking for—BIRLEY'S ANTACID TABLETS... the quickest reliever of indigestion in the handiest, most hygienic form! Put them on display and remember, whether you sell Birley's Antacid Tablets or Birley's Antacid Powder, you're sure of customer-satisfaction.

★
A new product with a famous name!

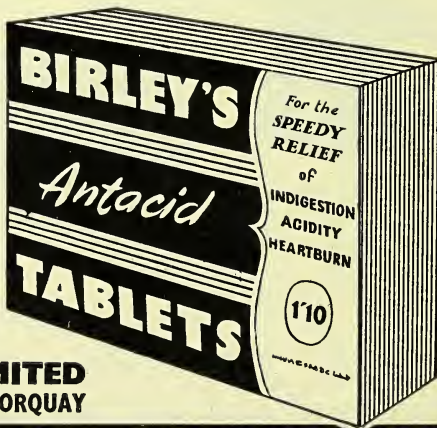
Retails at the price of 1/10, 24 to the pack—4 sealite strips of 6 tablets each, or in individual vest-pocket packs of 6 tablets at 6d. (inc. P. Tax). Packed in cartons of 3 dozen.

A new improved formula that cannot be bettered has been produced for Birley's Antacid Tablets. Each tablet represents a full dose and contains:

Magnes. Trisil. gr. $1\frac{1}{2}$	Magnes. Carb. Pond. gr. $10\frac{1}{2}$
Alumin. Hydrox. gr. 1	Sol. Saccharin gr. $\frac{1}{20}$
Ol. Ment. Pip. Min. $\frac{20}{20}$	Base ad. $15\frac{1}{2}$ grains

★ **Be sure to visit Stand 27**
at the CHEMISTS EXHIBITION, Sept. 29th—
Oct. 2nd where your enquiries will be welcomed.

BIRLEY'S ANTACID LIMITED
68 FORE STREET, ST. MARYCHURCH, TORQUAY



QUALITY FIRST

We have been making compressed tablets for over 50 years. Our first consideration is always QUALITY.

Tablets to standard formulæ always in stock.

Our plant is capable of making perfect tablets from $\frac{1}{8}$ " to $2\frac{1}{2}$ " in diameter, and 8 milligrammes to 4 ounces in weight.

**WE SPECIALIZE
IN EXPERIMENTAL WORK**

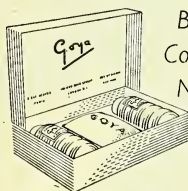
THOMPSON & CAPPER
WHOLESALE LTD.

**SPEKE HALL ROAD,
LIVERPOOL, 19**



They'll give GOYA to girl friends, wives, mothers, sisters, aunts . . . CORVETTE to boy-friends, husbands, fathers, uncles, brothers . . . because there are so many attractive packs . . . because the prices are right . . . because they know Goya gifts are always welcome . . . because they will see the mass of Goya Christmas Gift advertising.

And who are they? Your customers—so be wise and stock Goya's Christmas Range. Here is just a selection of what you can offer . . .



Bath
Coffret
No. 2
10/8

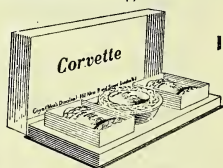
This box in pale green, with colourful lid design contains Perfumed Cologne with matching Soap and Bath Essence. Trade price 56/3 a dozen.



Bath
Coffret
No. 3
11/-

An attractive blue box holds two popular Goya bath preparations—Bath Salts and matching Talc. Trade price 53/6 a dozen.

Corvette Coffret No. 2



15/-

Three Corvette preparations—After Shave Lotion, Brilliantine and Shaving Bowl contained in this well-made grey and dark blue box. Trade price 84/- a dozen.



Beauty
Gift
10/6

A pale blue box holds Goya's nylon-sifted Face Powder in the new pink moulded bowl, and a bottle of beautifying Rose Lotion. Trade price 51/- a dozen.

Goya Hat Box 7/-



Dainty acetate 'hat boxes' each contain two handbag phials of perfume. Three different assortments. Packed in one dozen display cutters. Trade price 34/- a dozen.

Christmas Tree Gift Set



7/-

A festive gift—the gaily coloured carton contains a handbag phial of perfume and a bottle of matching Perfumed Cologne. In all the Goya fragrances. Trade price 34/- a dozen.

Visit Goya
on Stand 6
at the
Chemists'
Exhibition
September 29th
to October 2nd

Goya

161 NEW BOND ST. . LONDON W.1



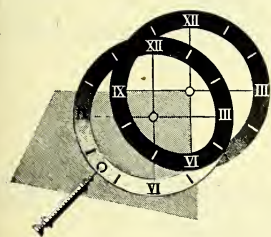
7/-

New Christmas Crackers

Two miniature crackers, each containing a handbag phial of perfume, packed in a ribbon-tied window box. Three assortments. Trade price 34/- a dozen.



LIFE and the diabetic



Save for a few simple routine measures, the diabetic's daily life need differ little from that of any other person. Indeed, in many cases a single daily dose of Globin Insulin suffices to control blood sugar satisfactorily from one morning to the next. The action of this intermediate insulin is prompt and strong by day, reaching its peak when most required; but diminishes by night, thus obviating bedtime meals. Nocturnal insulin reactions are rare.

'WELLCOME' BRAND GLOBIN INSULIN

(WITH ZINC)



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

PASTILLES
LOZENGES
CAPSULES
OINTMENTS



**... Our Job is
the Manufacture
and Packing of
These Goods**

*... we do it well,
as we should—
after so many
years experience*

**OUR ORGANISATION IS ALWAYS
AT YOUR SERVICE**

**WARRICK BROS. LTD.
WARREX LABORATORIES
LONDON, N. 1**

Achievement in our time



To have seen Gielgud's Lear will be something to tell one's grandchildren. For here the actor's art of interpretation is matched by such a voice and such a feeling for the tragic predicament of Man as are met with only once in a century • Achievement in our time comes only as it always came—by mastery of technique based on knowledge and devotion.

It is our conviction that this can also mark the attitude of a chemical house on which the health of men and the progress of industry depend.



FINE CHEMICALS BY

HOWARDS OF ILFORD

Established 1797

ASPIRIN . AVANTINE . BROMIDES . CITRATES . ETHERS . HEAVY MAGNESIAS . IODIDES
LACTATES . QUININE . SALICYLATES . TABLETS . THYMOL

TBW/1A



for
fine chemicals
especially: _____

ASPIRIN B.P. "FRE-FLO"
CITRIC ACID B.P.
SALICYLIC ACID B.P. & TECH.
SODIUM SALICYLATE B.P.
TARTARIC ACID B.P.
VANILLIN 100%

H. W. GRAESSER-THOMAS LTD
49 LEADENHALL STREET,
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TELEPHONES: ROYAL 3011 - 6111

JKL

ERGOT OF RYE

★

prompt and forward

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and all other

Botanicals, Gums, Waxes,
Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.

Gresham House, 24 OLD BROAD STREET, E.C.2

Telephone: London Wall 4882, 6585, 6586

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Branches in New York and Hamburg

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% B.P.

Oil Euc. Dives 40/45%

Oil Euc. Citr. lodora

70/75% B.P.

Piperitone 90/95%

Oil Euc. Phellandra

..... Phellandrene

UNIFORMITY OF QUALITY

CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3**

Phone: MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams: WYFIELD, LONDON

TANNIC ACID

AND DERIVATIVES

(Bulk
Supplies
Only)

THE BRITISH DYEWOOD COMPANY LIMITED
19 St. VINCENT PLACE, GLASGOW, C.1

PHENOXETOL

Regd. Trade Mark

B.P.C.

The original antipyocyan compound with its developing use as a special preservative and antiseptic for penicillin creams, anti-burn ointments and pharmaceutical-medical preparations.

We shall be happy to send you full technical details on request.

NIPA LABORATORIES LTD

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Nr. CARDIFF

TEL: TAFFS WELL 128 & 150

Sole Distributors for the United Kingdom:

P. SAMUELSON & CO., ROMAN WALL HOUSE, 1 CRUTCHED FRIARS, E.C.3 Tel: ROYAL 2117/8

The latest development in Indoor Sunray Treatment

ACTINA *The Portable Sun*

FOR ULTRA VIOLET. A High Pressure 150 watt Quartz tube so powerful that on average skin only one minute's treatment at one yard distance is required.

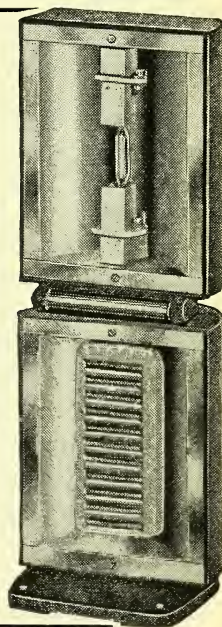
FOR INFRA RED. A 400 watt black body element that can be used independently and being 100% "front wired" has no radiation losses.

FOR CONVENIENCE. A mains switch and a selector switch for Ultra Violet combined and for Infra Red alone. Size 5"x6"x9". Weight only 5 lbs. For professional use or against medical certificate. Price £14. 14. 0. Exempt from Purchase Tax.

Full details from

PERIHEL LTD.

EDGE ST., LONDON, W.8



Retails at

The

LIPTOL

SEMI-CREPE TOILET ROLL



(Attractively Banded)

44/- per gross
carriage paid

(Sample on request)

Retails at

PER BOX OF
100 SINGLES
(50 DOUBLES)

1/-

LIPTON'S SUPER SOFT HANDKERCHIEF TISSUES

95/- per gross
carriage paid

(Sample
on
request)



★ **NATIONALLY ADVERTISED**
LIPTON'S PAPER MILLS LTD.
Devonshire Works · Dukes Avenue · Chiswick · London, W.4
Telephone: CHiswick 3600 (8 lines)

RECOMMENDED FOR NERVES

DR. NIBLETT'S
VITAL RENEWER
NERVE SEDATIVE

TRADE DISCOUNT 33½%

C. P. NIBLETT (Est. 1870)

10 LICHFIELD TERRACE, RICHMOND, SURREY

Telephone: RICHmond 3221

for
70 YEARS
Retail price
6/-
per bottle
including
purchase tax.

Training for Retail Sales Staff

By Else Herzberg and Mary Nicholson. A "textbook of salesmanship" with an original approach. It lays emphasis not merely on direct selling, but on service and the necessity for sales assistants to show a genuine interest in their customer's needs. Illustrated 15/- net.

★
PITMAN
Parker St. · Kingsway
London, W.C.2

"NORVEX" PRODUCTS

**SURGICAL DRESSINGS · CREPE BANDAGES
SANITARY TOWELS · SPONGE BAGS · TOILET
BAGS · BABY PANTS · FACE CLOTHS**

Wholesale and
Retail Enquiries to:

CROSSKILLS OF NORWICH

Fine Chemicals & Drugs

ADRENALINE
AMINOPHYLLINE
BENZOCAINE
CAFFEINE
EPHEDRINE
etc.

HORMONES
ICHTHAMMOL
PAPAIN
PEPSIN
PHENOBARBITONE
etc.



Essential Oils

Aniseed, Bay, Cajuput, Juniper,
Peppermint, etc.

Terpeneless Oils and Isolates

We also manufacture a wide range of
Floral and *Speciality* type bouquets for all
classes of trades.

CHAS. ZIMMERMANN & CO., LTD.
DEGA WORKS, WALMGATE RD, PERIVALE, GREENFORD, MIDDX.

Phone : PERIVALE 9121 (4 lines) GRAMS : ACIDOLAN - GREENFORD MIDDX.

*A new
Ingram's teat
for 8d*



This new teat in finest rubber, combines all the famous Ingram safety features. It will withstand repeated sterilization in boiling water and is **TESTED FOR FLOW**. Available in four distinct shapes, individually packed in attractive display cartons, these new teats deserve the most prominent display.

An intensive publicity campaign is now in full swing. Bold, telling advertisements in the leading women's journals, reaching hundreds of thousands of potential customers mean big business for all stockists. Tie in with this forceful advertising by displaying Ingram's Teats in your window and on your counter... but be sure your stocks are adequate!



ENSURES *safe* FEEDING

NATIONAL FORMULARY 1949

**PASTILLES
and LOZENGES are
always in ample
supply from**

ROBERT GIBSON

& SONS LIMITED

MANCHESTER & LONDON

Manufacturers of

'MECCA' COUGH PASTILLES

and

GIBSON'S CHOCOLATE WORM CAKE

'SURCO'

**SURGICAL
ELASTIC
HOSIERY**

**SEAMED, SEAMLESS,
TWO-WAY STRETCH
ELASTIC NET**

**SURGICAL BELTS
TRUSSES & SUNDRIES**

Over 60 years' service of everything surgical
SURGICAL HOSIERY CO., LTD.
Russell Street, NOTTINGHAM
Telephone No. 75503 Telegrams: Surgical Notts.

CHILTON ELECTRIC DRY SHAVERS

The Famous

KuB



"Have you seen our
SPECIAL OFFER



If not, write TODAY for folder giving news of the FREE new Transformer Adaptor. It is a must to men who travel and find voltage variations more especially because it steers voltage up or down. The numerous visitors from Overseas, particularly from America where Electric Dry Shavers are tremendously popular, will demand our Transformer Adaptor. Make sure you have them in stock.

FREE

to the **PROGRESSIVE
RETAILER**

★ ★ **IMPORTANT** Chilton Electric Dry Shavers are extremely efficient, TROUBLE FREE and do NOT interfere with Wireless or Television.



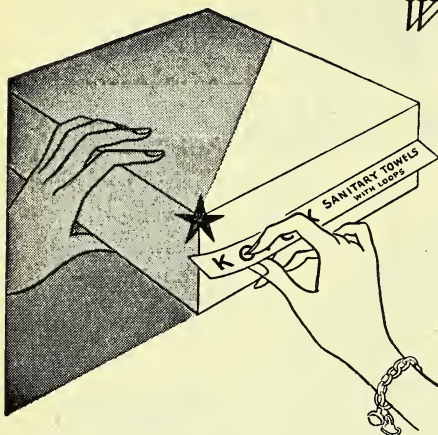
A Big Advertising Campaign will commence THIS month in the leading popular weeklies and monthlies.

order today

**CHILTON ELECTRIC PRODUCTS LIMITED
HUNGERFORD · BERKS · ENGLAND**

**Bulk
5-19-8**

TAX PAID



Women prefer

KOTEX

SANITARY TOWELS

(WITH LOOPS)

Because demand exceeds supply,
please do not blame your whole-
saler should he be unable to
meet your requirements.

★ Simply remove the perforated strip and
the plain box is ready for sale.

CELLUCOTTON PRODUCTS LTD., 33/34 AYLMER PARADE, LONDON, N.E.

Experience gained throughout 150 years

brings you "**RELIANCE**"

SPONGES

FINEST DEEP SEA

CHEMIST
EXHIBITION
Sept. 29th-
Oct. 2nd
STAND No.
36



Being the largest bulk buyers of sponges, we are able to select the best of the crop—sponges of the finest texture; and our 150 years' experience in processing ensures for the chemist trade a product that its customers greatly value.

Attractive display materials, and interesting literature are at your disposal. Your enquiries will receive expert attention and our representative will gladly call on request.

CRESSWELL BROS. SPONGES

(World Natural Sponge Suppliers Ltd.)

SPONGE IMPORTERS AND EXPORTERS

INTERNATIONAL BUILDING

BUCK STREET, CAMDEN TOWN, LONDON, N.W.

Phone: GULLiver 5462-3

Telegrams: Sponge, Norwest, London

It's ZAC for Nurse's own Baby

What does a nurse do when she marries and has a baby of her own with "nappie-chafe"? Well, here is one nurse's answer: "For my own baby I never use anything else but ZAC Baby Cream." In fact, I would not be without it. My daughter was 6 months old, when she was unfortunate enough to contract gastro-enteritis, even though breast-fed and I am happy to contract-inform you that only through the use of ZAC was I able to prevent her buttocks becoming sore."



"Wonderful for Nappie-Chafe"

Says Mother of Three
And not only for Nappie-chafe but for rough skin and chapped hands, too. Read this Mother's letter: "Will you please allow me to thank you for bringing out such very good stuff as ZAC Baby Cream. It is really wonderful for healing nappie-chafe. My other two daughters use it for rough skin and chapped hands. I wouldn't be without a jar for the world. When I take my baby to the Welfare Centre I always recommend it to other mothers."

—Mrs. A. G. Sheffield.
ZAC Baby Cream contains lanoline, nearest to natural skin oils. Keeps Baby "Nappie-happy" and sweet-smelling. Economical in use. From all chemists, 1/9 double quantity.

Baby's Rash Vanished

Almost Overnight

Good news is worth sharing. "I feel I must write," says this mother, "to tell you how much I value your ZAC Baby Cream. Baby had a rash when just a few weeks old and I tried everything I could think of. ZAC Baby Cream and tried it. Baby's rash vanished almost overnight. I was so pleased I recommended it to all my friends and I'm never without it. Baby is now nearly 9 months old and I've had no more trouble."

—Mrs. C.W.M.,
Hornsea, E. Yorks.

ZAC Baby Cream contains lanoline, nearest to natural skin oils. Keeps Baby "Nappie-happy" and sweet-smelling. Economical in use. From all chemists, 1/9 jar; 409

all chemists, 1/9 jar; 409

Here are specimens of the

new ZAC adverts

which are stepping up
the sales of ZAC Baby Products in
every part of the Kingdom

The latest ZAC Baby Cream and Baby Powder advertisements are markedly increasing sales of these popular preparations in *every district* in the kingdom.

Lovable baby drawings by a famous artist which illustrate user-mothers' own satisfaction are persuading other mothers to buy ZAC. And once they have experienced these high quality preparations, they repeat and repeat and repeat!

Over 30 million ZAC advertisements appear every month in the leading Women's Magazines and in the National Press. Steady and continuous sales are CERTAIN.

HOW ARE YOUR STOCKS?

ZAC

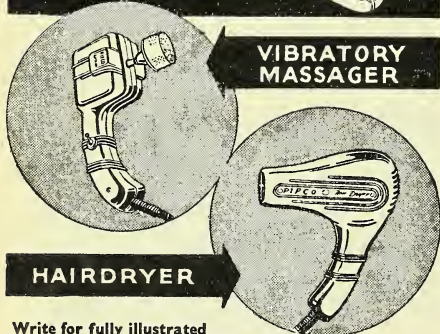
BABY PRODUCTS

RIGHT for BABY—RIGHT for
MOTHER—RIGHT for YOU

HOUGH, HOSEASON & CO. LTD., CHAPEL STREET, MANCHESTER 19.

**RIGHT IN PRICE!
PERFORMANCE!
AND PROFIT!**

PIFCO
BEST SELLERS



Write for fully illustrated
Catalogue of exclusive Pifco Specialities

PIFCO, LTD.

WATLING STREET, MANCHESTER, 4

Our new London address:—

36-37, Upper Thames Street, E.C.4

GNOME

The
**ALPHA
DE LUXE
ENLARGER**

$2\frac{1}{4} \times 3\frac{1}{4}$

★

**MANY NEW
FEATURES**

from

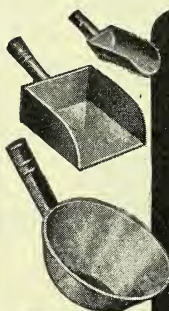
£15.7.6

including lens and tax

Write direct to
manufacturers
for details



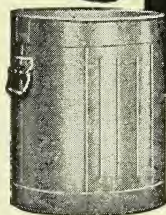
GNOME PHOTOGRAPHIC PRODUCTS LTD.
354 CAERPHILLY ROAD, CARDIFF



'WEBSTER'S'
STAINLESS STEELWARE

Specialists in modern equipment for manufacturers, i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Boggles, etc., etc. Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



ISAAC WEBSTER & SONS, LTD
ABBAY WORKS, KIRKSTALL, LEED
Phone : 51580 Leeds. Grams : Isaac Webster, Kirkstall

CORK LINED SLEEVES

**CORRUGATED
PULL-THROUGH
BOXES**

Compressed Paper Packing Limited

Horton Road - West Drayton - Middlesex

Telephone: WEST DRAYTON 2237

BEATSON BOTTLES **on view—**

**—AT OUR STAND
AND AT THE SPECIAL
DISPENSARY DISPLAY**



**THE SIGN OF A
GOOD BOTTLE**

**CHEMISTS' EXHIBITION
ROYAL HORTICULTURAL (OLD) HALL
SEPT. 29th — OCT. 2nd 1952**

BEATSON, CLARK & CO. LTD. ROTHERHAM · YORKSHIRE
GLASS BOTTLE MANUFACTURERS **ESTABLISHED 1751**

a case historyand what

Still essential for the health

of trade is the fact that we need returned

to us every C.R.S.-marked case. Prevention is

always better than cure, so always

please open every case carefully and

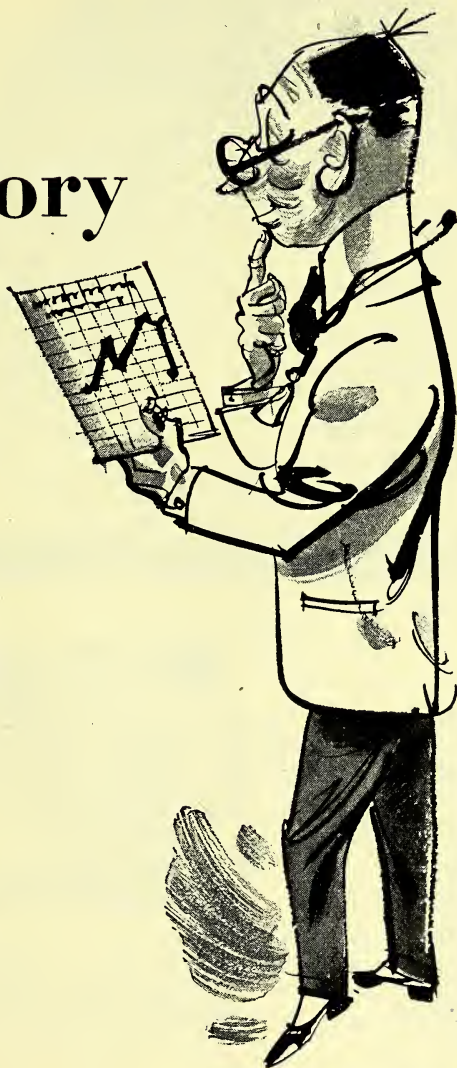
save it for collection.



CONTAINER

S.P.D. LIMITED

a history



recovery service

3-5 SALISBURY SQUARE, LONDON, E.C.4

SOL-TAN



**Speedy Relief
from Pain!**

'SOL-TAN' MAJOR Catalogue No. E.M. 32

One of the finest Infra-Red and Radiant Heat lamps yet made for professional heavy duty in Hospitals, Welfare Centres and Clinics. Supplied with one 600 watt Infra-Red Burner and one 750 watt Radiant Heat heavy Burner. Goliath Edison Screw fittings.

List Price **£17.17.0** Tax Free

Spare Burners 35/- each

Only supplied against Doctor's certificate or for professional use.

Fully illustrated Catalogue gladly sent on request
'Sol-Tan' Marked for Home and Export by:—

Indoor Sunshine!

'SOL-TAN' "TRIPLERAY" 100/23 T.M.

Quartz Burner

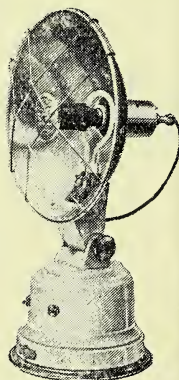
This excellent portable model produces rich Ultra-Violet Radiant-Heat Infra-Red rays at a touch of a switch. Exceptionally well made and incorporating only the highest class materials and workmanship.

Operated on A.C.
only 200/250 volt.

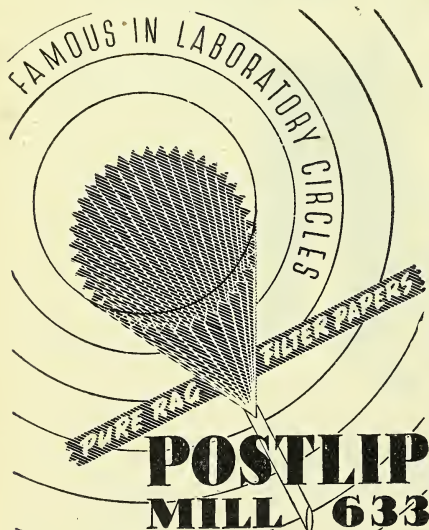
List Price

£19.13.3

Complete Tax Free



THE LONDON COMMERCIAL ELECTRICAL STORES LTD.
20-23 CURSITOR STREET, E.C.4. • CHANCERY 6488/9.



EVANS, ADLARD & CO LTD • WINCHCOMBE • Glos.

"ZULO"



CARBOY HAMPERS

**LEIGH
& SONS
METAL
WORKS
LTD.**

Orlando St.,
BOLTON.

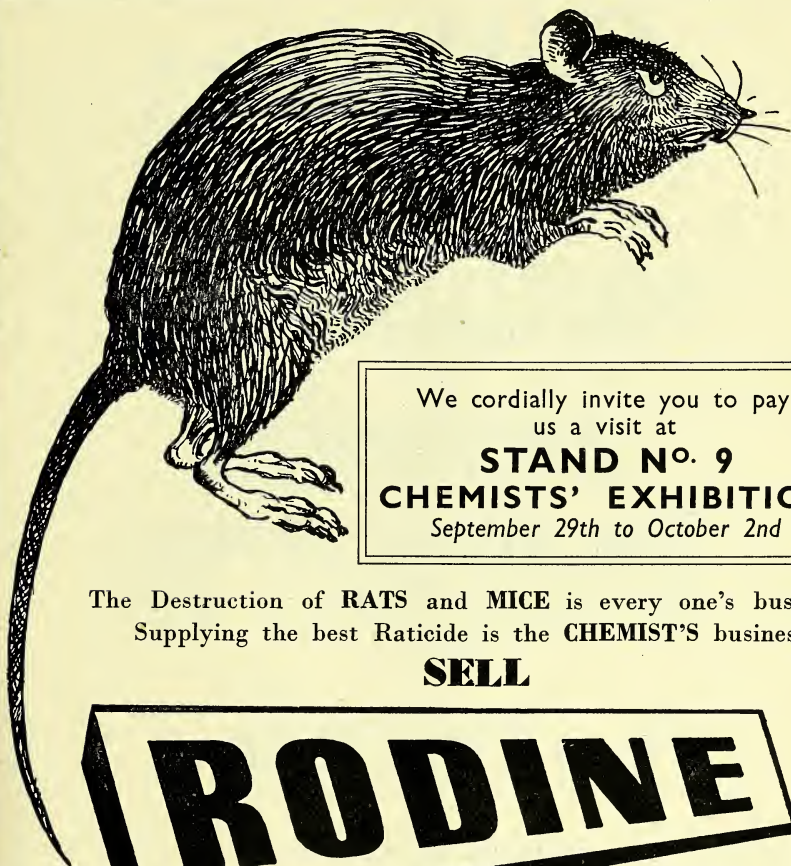
GUM TRAGACANTH

GUM KARAYA
WHOLE AND POWDERED

M. HAMBURGER & SONS
DIRECT IMPORTERS

Plantation House
MINCING LANE, LONDON, E.C.3

Telephone: Mansion House 4405 (3 lines)



We cordially invite you to pay
us a visit at
STAND No. 9
CHEMISTS' EXHIBITION
September 29th to October 2nd

The Destruction of **RATS** and **MICE** is every one's business.
Supplying the best Raticide is the **CHEMIST'S** business.

SELL

RODINE

P.A.T.A.

PHOSPHORUS or RED SQUILL

and you are sure of satisfied customers
and substantial profits.

With **RODINE** there is no hit or miss—each and every batch is laboratory tested to ensure the strength and biological activity of the toxic chemicals employed.

Sole Makers :

THOMAS HARLEY LTD.
PERTH, SCOTLAND.

Gillette

announce that from

15th September 1952

the retail price of

Thin Gillette Blades

will be

2/6 for 12 and 1/3 for 6

(including P. tax)



Always buy 'Benzedrine' Inhalers In complete dozens...

... they are then supplied on an attractive showcard, and if you display this on your counter or in your window for at least 14 days you can claim a special display discount of 7½% (full details are included in each one dozen

pack). Display 'Benzedrine' Inhalers permanently and increase your ready-cash turnover, especially during the winter months. They afford symptomatic relief from nasal congestion in head colds, sinusitis, and hay fever.

**Stock Benzedrine Inhalers
and ensure repeat business**

Send your orders now to your usual supplier

Trade price 18/- doz.—Retail price 2/- each.
There is 6d. profit on each Inhaler sold—nearly 7½d. if you claim display discount.

MENLEY & JAMES, LIMITED,
Coldharbour Lane, London, S.E.5
for Smith Kline & French International Co., owner
of the trade mark 'Benzedrine'.

UNEQUALLED ADVERTISING PRESSURE PROMOTES NEW **miracle-green** TOOTHPASTE

THE CHLOROPHYLL TOOTHPASTE ...it contains effective chlorophyll!

Mentadol's chlorophyll is the most revolutionary ingredient ever developed for a toothpaste. It is effective chlorophyll... gives you the full advantages of this wonderful substance...



GIVES YOU A

Clean Fresh Mouth All Day Long!

WHAT IS CHLOROPHYLL?
Chlorophyll is Nature's best substance to be added to all green animal foods. It gives them suppleness and health. This substance, when introduced into the toothpaste, the toothbrush, it will keep your mouth and throat fresh and clean.
Just four years of scientific experiment, the greatest laboratory developed a unique "Prochlor" substance of chlorophyll which can be absorbed by the human system. Human progress, indeed, chlorophyll! Natural is also a word research!

Striking half-pages in the Daily Express!

Britain's best selling-medium — 4,000,000 circulation!

Equivalent pressure in all leading newspapers
and magazines!

**HUNDREDS OF POSTERS!
NOVEL DISPLAY MATERIAL!**

MSTC6-1062-100

Now is the time to display this new chlorophyll toothpaste and...

Watch the rising sales of

Mentadol

**THE CHLOROPHYLL
TOOTHPASTE**

Made by the makers of Pepsodent

Death of a Salesman



"A packet of this please,"

"Thank you madam."

"How much is that?"

"Two shillings, madam, and you get another packet free!"

"Oh! Well I only need one packet, so if I give you a shilling that will be right!"

"Oh, no, madam, you must buy one to get one!"

"But *one* packet is only worth *one* shilling!"

"No, madam, two shillings."

"So the free packet is worth nothing!"

"Oh, no, madam, it's worth two shillings."

"Well, as I only want *one* packet *you* keep the *free* one and give me two shillings!"

"I can't do that madam!"

"Why not, it's quite logical?"

"The situation, madam, is quite illogical. If you will excuse me for one moment however I will bring it to its logical conclusion....."

Personal

WILL Management Anxious to Retain the Services of Able and Conscientious Staff Please Note that Domestos and Stergene are Sold on Their Merits. There are no "Free" Gifts, no Competitions, no Bonus Offers, no Coupons. Indeed, to Sell Domestos and Stergene is No Trouble at All!

DOMESTOS LIMITED
COLLEGE WORKS
Newcastle upon Tyne 6



MAWSON & PROCTOR PHARMACEUTICALS LTD



THE SPECIALITY SHOWROOM

A comprehensive range of medical specialities is displayed in this showroom which is known throughout the North as "The Ethical Department".

Pharmacists and their assistants appreciate its friendly atmosphere and its specially trained staff.

Mawson's are always at your service for :

**ETHICAL MEDICAL SPECIALITIES,
PROPRIETARIES
DRESSINGS
DRUGS**

MAWSON & PROCTOR PHARMACEUTICALS LTD.
LOW FRIAR LANE • NEWCASTLE-ON-TYNE • Telephone : Newcastle 27074

Bristow's

Lanolin Soap



ADVERTISING
*is keeping
an eye on sales!*

You will see it in your papers, and millions of other people will see it too—large space Advertising selling the idea of a mild and gentle soap containing LANOLIN. So keep a Display Box of Bristow's LANOLIN Soap open on your counter. There's no better way of converting interest roused by Advertising into SALES. Show material available—see the Bristow's representative.

TRADE TERMS	Retail Selling Price (Inc. P. Tax)	Standard Wholesale Terms per doz.	Best Terms per doz.	Special Parcel Terms per doz.	Purchase Tax per doz.
3 oz. SIZE	rod.	6/3	6/-	5/9	2/1
6 oz. SIZE	1/8	12/6	12/-	11/6	4/2

Some displays are *PASSIVE*



**HERE'S ONE
THAT'S ACTIVE!**



Are you using the new handy-to-use 'ASPRO' Silent Salesman? If not, our representative will be pleased to fix one for you when next he calls. It is an **ACTIVE** display in the sense that it is not a mere reminder but actually creates sales. Placed prominently at eye level it catches the attention of every customer.

KEEP IT FILLED-IT MAKES SALES!

Have you noticed the NEW STYLE

'ASPRO' ADVERTISING?
-THE PUBLIC HAVE!

PAPA

Made by ASPRO LIMITED, Slough, Bucks

ASPRO

**"When I sell a bottle
of . . .**

**MIRACLE MIXTURE
I make a friend"**

*Thus writes a Chemist who has
a big Trade with Dog Owners*

There is no medicine in this Country which has saved the lives of so many poorly dogs. There is no more elegant preparation. None which gives such certain and speedy relief and none which shows you a better return for your sales in good wishes and financial benefit.

Get in touch now with :—

THE HATCHWELL CO. LTD
BYRON STREET, PRESTON, LANCs
Telephone: Preston 5118

N23



Victory V

GUMS & LOZENGES

FRYER & CO. (Nelson) Ltd., NELSON, LANCs.

QUEEN
NON-ALLERGIC
TOILET
PREPARATIONS

*Available from your Wholesaler
or direct from the makers*

**BOUTALLS CHEMISTS
LIMITED**

60 Lamb's Conduit Street,
London, W.C.1



2 reasons

why *Wisdom*^{REGD.} is the most
profitable toothbrush line
to stock



TWICE-AS-QUICK TURNOVER

WISDOM is easily the largest-selling toothbrush, and it turns over roughly twice as quickly as its nearest competitor. So when you invest in Wisdom, you get your return back twice as soon. And Wisdom bonus schemes give you the biggest margin, too.



MOST ATTRACTIVE DISPLAY

MOST chemists agree that Wisdom display is more colourful, attractive and hard-selling than that for any other toothbrush. Put the Wisdom Merry-go-Round on your counter, and see how it peps up your toothbrush sales.

You need never be afraid to carry sizeable stocks of Wisdom. Turning over so quickly, it never sticks on your shelves.

Be wise—
sell *Wisdom*^{REGD.}

THE QUICKEST-SELLING TOOTHBRUSH

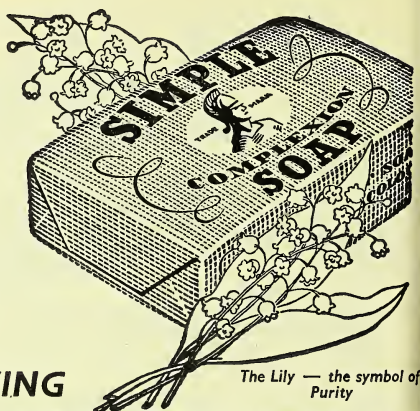


pure soap—no perfume
no colouring—no fillings

THAT'S
"SIMPLE"
SOAP

SALES ARE RAPIDLY GROWING

Be prepared by holding a stock and take
your share of this rapidly expanding line.



The Lily — the symbol of
Purity

Advertising is regularly appearing in a
wide range of Medical and Nursing
Journals.

AMPLE SUPPLIES — PROMPT DELIVERIES

Good Profits — reasonably priced. 6/- per dozen, plus 2/- P.T. Retail price 11d.,
showing a profit of 3d. per tablet.

AVAILABLE THROUGH WHOLESALERS

Or Direct
THE ALBION SOAP CO., LTD., 30-2 THAMES STREET, HAMPTON, MIDDX.
Makers of the world famous Albion Milk and Sulphur Toilet Soap.

Dr. J. Collis Browne's Chlorodyne
and
The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's
CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

P.A.T.A.

Sole Proprietors:

J. T. DAVENPORT LTD.
UNION ST., LONDON, S.E.1

Generous Steady Intensive
*Profit * Repeat * National*
Margins Business Advertising
make

PHILLIPS' PRODUCTS

Firm Trade Favourites



'MILK OF MAGNESIA'

REGD.

'MIL-PAR'

REGD.

'MILK OF MAGNESIA' TABLETS

REGD.

PHILLIPS' DENTAL MAGNESIA TOOTHPASTE

REGD.

PHILLIPS' MAGNESIA BEAUTY CREAMS

'DANDERINE'

REGD.

'CALIFORNIA SYRUP OF FIGS'

REGD.



The Chas. H. Phillips Chemical Co. Ltd.

179, ACTON VALE, LONDON, W.3.

NOW... 33 $\frac{1}{3}$ % profit
FOR YOU ON
Dirty Paws
NON-GRITTY
HAND CLEANSER

Reduced Trade Prices for "Dirty Paws" hand cleanser will give retailers 33 $\frac{1}{3}$ % profit instead of 25%. Selling prices to the public remain at 2/6 a tin and 1/6 a tube. Order through your usual wholesaler or write to us.

Consumer demand for "Dirty Paws" is stimulated by extensive regular advertising in the Press. Exhibitions in many parts of the country will feature the product, and show material, hand-bills and samples are freely available.

Dirty Paws
NON-GRITTY
HAND CLEANSER
 KAY BROTHERS LIMITED · STOCKPORT



AN ALL COTTON WOOL PRODUCT OF REPUTE

Consolux
 (Registered)
 Patent No. 410702

SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS

LOOPED ENDS
NON-ABSORBENT BACK
WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.
 SURGICAL DRESSINGS MANUFACTURERS
 DYSART STREET, GREAT MOOR, STOCKPORT
 Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

C. E. Fulford Ltd announce

that they have now taken over
the distribution of

Caleno
REGD TRADE MARK

Stabilized
Calcium Aspirin

CALENO is readily soluble, will not cause indigestion and will not harm the heart or stomach. It is indicated in cases of headache, toothache, neuralgia, neuritis, influenza, lumbago, rheumatism, sleeplessness, menstrual pains, etc. Caleno contains neither aspirin nor diaspirin. Packed in one ounce amber-glass jars for public retail, and in 4 oz. and 8 oz. sizes, (Purchase Tax free) for dispensing purposes.

Please address all enquiries to
C. E. Fulford Limited,
 Carlton Hill, Leeds 2.

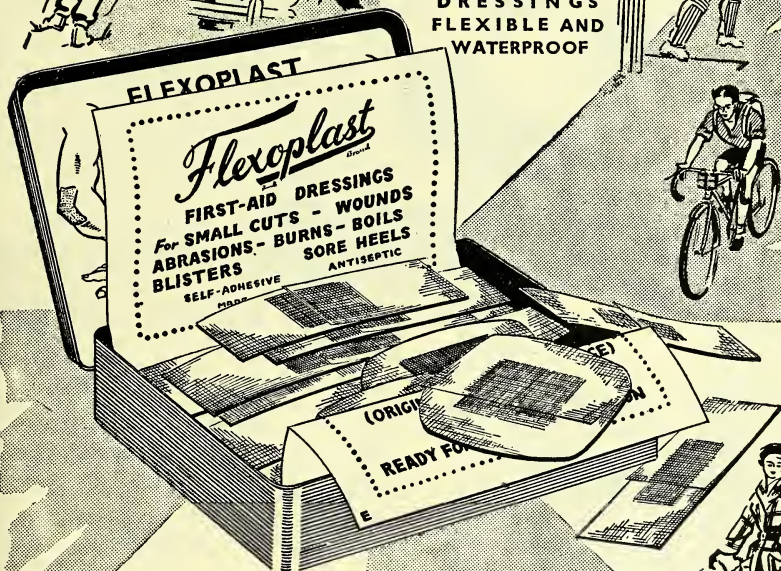
THEY ALL BUY ...

Flexoplast

BRAND

Regd

FIRST-AID
DRESSINGS
FLEXIBLE AND
WATERPROOF



For Cuts
Small Wounds
Burns • Abrasions
Bruises • Sore Heels

Obtainable from all wholesalers.

T.P. 1/40

A PRODUCT OF EDWARD TAYLOR LTD • MONTON • LANCS

11,000,000 WOMEN WILL SEE THIS ADVERTISING



Regular advertising in all the women's weekly and monthly publications is building up a big demand for these Adelaide Grey Proprietaries. Order a stock today.

WAX-A-WAY & COOLWAX DEPILATORIES

'Laleek' Wax-a-Way recommended for facial treatment is definitely the most satisfactory Wax Depilatory marketed today. It retails at 8/7 including Tax. 'Laleek' Coolwax is for use on the arms and legs. Economical to use and most effective. Retail at 5/9 including Tax.

LONGLASH & EYE COSMETIC

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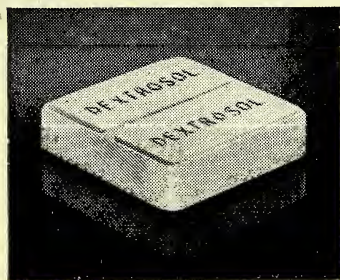
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for RETAILER — WHOLESALE — MANUFACTURER

SEPTEMBER 20, 1952

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Volume CLVIII

CONTENTS

No. 3787

<p>Birth 390</p> <p>Business Changes 388</p> <p>Coming Events 390</p> <p>Conference Symposium Session .. 401</p> <p>Correspondence 394</p> <p>Deaths 390</p> <p>Editorial Articles:—</p> <p style="padding-left: 20px;">Certification of Assistants .. 399</p> <p style="padding-left: 20px;">Six Years of Antibiotic Progress 400</p> <p style="padding-left: 20px;">Spirit Prices 400</p> <p>Echoes of the Past 392</p> <p>Information Wanted 398</p> <p>Legal Reports 389</p> <p>Local News 386</p> <p>Local Officers 388</p> <p>Marriages 390</p> <p>Medical Abstracts 415</p>	<p>More Pictures of the Conference 407</p> <p>New Companies 388</p> <p>New German Proprietaries .. 416</p> <p>New Products and Packs 396</p> <p>Personalities 390</p> <p>Pharmaceutical Society of Ireland:—</p> <p style="padding-left: 20px;">Council Meeting 391</p> <p>Price Changes Coloured Supplement</p> <p>Print and Publicity 416</p> <p>Representatives Debate Assistants 408</p> <p>Technique of Tubular Bandaging 396</p> <p>Topical Reflections 387</p> <p>Trade Marks 416</p> <p>Trade Notes 395</p> <p>Trade Report 411</p> <p>Ulster Chemists' Association .. 393</p> <p>World Trade 414</p>
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NEWS OF THE WEEK

Resale of Dollar Commodities.—The Treasury has decided not to reopen for the time being the exchange control arrangements permitting purchase of certain dollar primary commodities for resale to countries in the European Payments Union. Applications since the scheme was started on August 5 have been large enough to attain the limited objective of reducing the United Kingdom deficit with the European Payments Union.

Purchase Tax on Hair Nets.—In consultation with the trade associations concerned, the Commissioners of Customs and Excise have decided that, in future, hair nets of all descriptions shall be regarded as haberdashery (group 4). The arrangement whereby those hair nets known as noods, slumber nets or boudoir caps were treated as headgear (group 2) and in some cases eligible for D relief, is cancelled.

Insecticide Sprayer Nomenclature.—The third report of the World Health Organisation Expert Committee on Insecticides is now available from H.M. Sta-

tionery Office, price 2s. The report (No. 46, 1952, in the W.H.O. Technical Report Series) contains a list of names and definitions of spraying and dusting apparatus recommended by the committee for world-wide distribution to government departments and all manufacturers of sprayers.

First N.H.S. Health Centre.—The first health centre to be designed and built (at a cost of £20,000) under the National Health Service was opened on September 16 by Mr. Iain Macleod (the Minister of Health) at Knowle West housing estate, Bristol. The centre is designed to provide surgery accommodation for general medical practitioners, and for use outside surgery hours for maternity and child welfare clinics. It will be the headquarters of the local health authority's domiciliary services on the estate, which has between 20,000 and 30,000 residents. It contains six consulting suites for general practitioners, each consisting of a consulting room, examination room and waiting room.

New Drug Tariff. — Supplies of the July 1952 Drug Tariff have now been

issued to all Executive Councils for distribution to contractors. The attention of chemist-contractors is drawn to the following notes on certain entries in the new Tariff: Part I: Clause 15, penicillin prescriptions, the addition in Part III of a pack of 10 lozenges; Clause 20, rectified spirit, the arrangement for the supply of industrial methylated spirit against orders for alcohol or s.v.r. for external use, where the prescriber has not marked the prescription to show that no alternative may be supplied. Ear drops and nasal drops are classed as external preparations for that purpose. Part IV: Amendments to the following: Note 2: Supply of bandages. Colostomy belts: Apparatus employing plastic bags may be supplied for repair or replacement. Gauzes, tulle dressings: Number of pieces and packs to be supplied. Lints, rayon lint: Notice is given of the addition of rayon lint (Drug Tariff) as from October 1. Pessaries: (a) Addition of certain large sizes, (b) Types of stem pessary other than Napiers may be supplied only if they are rubber. Suprapubic belts: Addition of introducers ordered for use with self-retaining catheters. Vaccination pads: Addition of a second type.

Chemists Federation.—A meeting of the Chemists Federation council was held on September 11, the president (Mr. W. T. Elder) in the chair. The following additions to schedules of C.F. agreements were approved by the Council:—*Calmic, Ltd.* (Drapolene cream); *Philip Harris, Ltd.* (Dicin); *Meggeson & Co., Ltd.* (Meggezons cough syrup); *Moore Medicinal Products, Ltd.* (Brovon delayed action tablets); *Thornton & Ross, Ltd.* (corn and wart solvent). A report was received of the work undertaken by the outdoor representative of the Federation in the Scarborough, York, Darlington, Hartlepool and Middlesbrough National Pharmaceutical Union branch areas. Additional C.F. propaganda was also undertaken by another representative of the Federation in parts of Essex and during the installation of special C.F. displays in Nottingham for the period of the British Pharmaceutical Conference. Arrangements were made for that additional representation to be continued during the next few months. A report was received on the displays installed in seventy-six chemists' windows in Nottingham. The secretary reported on the propaganda work which was being undertaken to obtain the full support of

chemists for the C.F. national display fortnight which will be held from October 20 to November 1. The following application for wholesaler membership of the Chemists Federation was approved by the Council:—*Unichem, Ltd.*, 3 Broadwater Road, London, S.W.17. The resignation of *Granville Wood & Co., Ltd.*, Oldham, as wholesaler members of the Chemists Federation was accepted. The secretary reported upon action taken to prevent the leakage of C.F. goods.

LOCAL NEWS

Sports and Gala Day.—Over 4,000 attended a sports and gala day held on August 30 by the Nestlé Co., Ltd., at Hayes, Middlesex. The opening ceremony was performed by Mr. R. S. Worth (managing director of the company). In addition to track events there were various side-shows including Punch and Judy. The beauty contest and baby show were main attractions. A well-attended gala dance in the social club took place in the evening.

Fourth Annual Sports.—The fourth annual sports fete of Kembell, Bishop & Co., Ltd., London, was held on September 13 at the Ashton playing fields, Woodford Bridge. About 1,100 people were present to enjoy in fine weather a full programme of events introduced by the company's chairman (Mr. J. E. Whitehall). Considerable athletic prowess was shown in both track and field events, with good entertainment provided by other races run in lighter vein. During the afternoon the children enjoyed a conjuring performance and Punch and Judy show. Mrs. H. F. Kembell (wife of the managing director) presented the prizes.

SPORT

IRISH CHEMISTS' GOLFING SOCIETY, at 'Elm Park Golf Club, co. Dublin, on September 10. 18 hole strokes: (1, P. G. Garaby (13), 69; 2, J. M. Glynn (9), 70. 18 holes bogey: 1, T. J. Lynel (5), 1 down; 2, B. R. Smith (6), 3 down. Best net first nine won by P. Slattery, and best net second nine won by W. F. M. Keyes. Prizes were presented by Kodak, Ltd., and McCormack & Co., Dun Laoghaire.

BIRMINGHAM PHARMACEUTICAL ASSOCIATION GOLF SECTION, competition for Ucal challenge cup and souvenir over Beau Desert course on September 14. Winner: L. H. Lester (present holder), 78. The W. O. Payne prize for members not eligible for the cup won by F. W. Tompkinson, 73. Captain special prize for best score at even holes won by G. Tennick, 40. Also challenge cup and souvenir in four-ball competition won by E. E. Jones and S. H. Harris, 69.

TOPICAL REFLECTIONS

A Balanced Programme

Excellent snapshots and drawings made at this year's meeting of the British Pharmaceutical Conference (pp. 368-69, 374-75) confirm the impression made by your reports of the proceedings. The friendliness of everyone present was the subject of remark, and appears to have been an outstanding feature. This is fitting, especially in consideration of contacts with casual visitors to whom pharmacy may be only a vague term. Yet the attraction of the Science Sessions, with their "almost record" number of papers, brought larger audiences than usual. This also is fitting, for discussion of scientific matters is, and I trust always will be, the primary purpose of the Conference. "Poorness of enunciation of some of those taking part in the Sessions" has been, I see, a regrettable cause of complaint. Yet I gather that a microphone was in working order throughout the proceedings. Though inaudibility is not peculiar to readers of scientific papers, that is no reason why they should not succeed in overcoming it. In "Me—Looking Back" (1950) Naomi Jacob makes a pointed reference to this trouble. "Then this 'mike hugging.' . . . I remember once at Finsbury Park Empire. . . . Performers came on, clung to the mike and moaned. I believe even the acrobats used the mike for their show. Then—Alice, Daisy, Rosie, dressed as the old-fashioned flower women. . . . Alice—the eldest of the three—walked up to the mike and gently removed it, handing it to the S.M., saying, 'We don't want that thing, thank you.' They didn't either, they knew their work. . . ." If performers in large spaces can learn how to produce their voices, surely readers of abstracts can make themselves heard in smaller spaces.

Historical Exhibition

A happy thought resulted in "two small exhibitions" at the Conference, devoted respectively to mediæval pharmacy and to the pharmaceutical history of Nottingham and its district. The interest of such displays is usually greater than their extent. Mr. G. E. Trease, who arranged the exhibits, is one of the few pharmacists in this country enlisted under the banner of history; we may hope to hear from him again in due course. Compilation from documents in the Public Record Office,

mentioned in your report, is a laborious process. In the first place references have to be searched for among the numerous indexes to the Calendar of State Papers, and then the system of the official files has to be mastered, to say nothing of the deciphering of old manuscripts. References to spices and drugs occur in entries often widely separated. Your annual special issues have for many years past contained gleanings from this and other sources. One example may be mentioned: "London's Drug Market and the Romance of Mincing Lane" (*C. & D.*, 1928.I.851-67). In the course of those seventeen pages many facts are noted regarding mediæval imports of drugs and dealings in them: the collection and arrangement of the material must have taken a long time.

Humorous Apothecaries

It was pleasant to find one of your Anthology selections (p. 372) derived from so familiar a classic as "Pickwick Papers" (to cite its short title), and to read once again a little about the doings of Bob Sawyer and some of his associates. Without supporting the theory that there is something inherently humorous about apothecaries, I think the genius of Charles Dickens is at its most persuasive strength in passages dealing with the Sawyer confraternity. His son Mr. (afterwards Sir) Henry Dickens included the thirty-second chapter of the book, describing a party at Sawyer's lodgings, in his public readings from the novels. No microphone was needed to magnify—or distort—his accomplished elocution. One of the most effective strokes of humour in English fiction occurs in that chapter at the end of Jack Hopkins's story of a boy swallowing, a few at a time, the beads of a necklace. It may be remembered that soon afterwards the assembled family heard "a devil of a noise, like a small hailstorm." On the cause being discovered, "the father caught the child up, and ran with him to the hospital: the beads in the boy's stomach rattling all the way with the jolting; and the people looking up in the air, and down in the cellars, to see where the unusual sound came from." At the hospital, the narrator added, "he makes such a devil of a noise when he walks about, that they're obliged to muffle him in a watchman's coat, for fear he should wake the patients!"

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NORMAN ELLIS (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale and retail chemists, druggists, etc. Norman Ellis, M.P.S., and Mrs. Winifred M. Ellis, directors. R.O.: 63 High Street, Daventry, Northants.

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BERMONDSEY METALS & CHEMICALS, LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of and dealers in merchandise including chemicals, etc. Herbert Wright and Ernest G. Dadak, directors. R.O.: 13 St. Andrews House, Holborn Circus, London, E.C.1.

NOSO PRODUCTS (1952), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in chemical products, adhesives, etc. Clara Fruitman and Hyman Kramer, subscribers. Solicitor: S. M. Fruitman, 18 Queen Anne Street, London, W.1.

Company News

CONTINENTAL LABORATORIES, LTD.—Mr. F. W. Phillips has been appointed managing director of the company.

BARCLAY & SONS, LTD.—Mr. Frederick Charles Balls, who has been manager of the Brighton branch for thirty-five years, has been appointed a director.

LEWIS & PEAT, LTD.—A final dividend of 25 per cent. on the ordinary capital making 75 per cent., less tax, for 1951 is recommended. Consolidated profit was £107,314 (against £78,225), after tax of £111,279 (£95,378).

SANGERS, LTD.—Group trading profit to February 29 was £502,137 (against £509,460). After depreciation, £24,816 (£19,008); directors' remuneration, £57,740 (£58,925), etc., profit was £405,252 (£418,809). Taxation was £253,393 (£247,893).

Voluntary Liquidations

WILLIAM J. PEACOCK (CHEMISTS), LTD. (R.O.) Hill Crest, Ashover, Derbys. Liquidator: Mr. F. E. Board, F.C.A., 22 High Street, Sheffield.

HAYDON BRIDGE DRUG STORES, LTD., 10 Ratcliffe Road, Haydon Bridge, Northumberland. Liquidator: Mr. N. Gill, Lloyds Bank Chambers, Hexham.

MARSHALL LECONTE & CO., LTD., chemists' sundriesmen. (R.O.) 112 Cannon Street, London, E.C.4. Liquidator: Mr. P. W. Mertens of the same address.

BUTE & CO. (EVERGREECH), LTD., dispensing chemists (R.O.) 55B Oxford Street, Weston-super-Mare. Liquidator: Mr. W. M. H. Nash of the same address.

BUSINESS CHANGES

THOMAS MARNS, LTD., removed to 49 Weston Street, London, S.E.1 (telephone: Hopwell 1140), on September 20.

APPROVED PRESCRIPTION SERVICES, LTD., Bradford Road West, Batley, Yorks, have been operating since August 1 the tablet business formerly carried on by Amber Pharmaceuticals, Ltd.

Appointments

C. F. GERHARDT, LTD., Fenchurch House, London, E.C.3, have appointed Mr. R. Mason their assistant manager.

PURDY MACHINERY CO., LTD., Euston Buildings, Gower Street, London, N.W.1, have appointed Mr. R. F. Pate production manager.

LOCAL OFFICERS

Wolverhampton N.P.U. Branch.—*Chairman*, Mr. D. R. Walton; *Vice-chairman*, Mr. R. T. Blenkinsop; *Secretary and Treasurer*, Mr. D. A. Rimmer, High-trees, Goldthorn Hill, Penn, Wolverhampton.

Norwich Branch.—*Chairman*, Mr. T. W. Thomas; *Vice-chairman*, Mr. J. F. G. Cook; *Treasurer*, Mr. G. Baskerville; *Secretary*, Mr. H. P. Whiteside, 128 Dereham Road, Norwich (telephone: Norwich 20121).

Western Pharmacists' Association (of London) and Branches of the Pharmaceutical Society and National Pharmaceutical Union.—*President* (Association), *Chairman* (Branches), Mr. B. J. Thomas; *Vice-president* (Association), *Vice-chairman* (Branches), Mr. D. R. Evans; *Treasurer*, Mr. D. T. Jones; *Secretary*, Mr. S. J. Turner, 809 Harrow Road, London, N.W.10; *Assistant Secretary*, Mr. I. H. Williams; *Social Secretary*, Mr. Clifford Evans.

LEGAL REPORTS

Theft from Employers. — An anonymous 'phone call was stated at Old Street magistrates' court, London, on September 13, to have led to the arrest of Mrs. Dorothy May Martin, 15 Baxter Road, Islington, who pleaded guilty to a charge of stealing goods to the value of £11 15s. from her employers, Innox, Ltd., 233 Balls Pond Road, Dalston. The goods included sixteen boxes of face powder, a box of skin ointment, fourteen tablets of baby soap, three tins of talcum powder, four l'psticks, two boxes of eyeblack and two tins of cream. The magistrate fined her £15 and gave her fourteen days to pay.

Pharmacy Act Fines. — C. Alcorn, Ltd., 42 Eastcastle Street, London, W.1, were fined £10, with 63s. costs, at Marlborough Street, London, magistrates' court on September 15 on a summons by the Pharmaceutical Society for selling a poison (a salt of hyoscine) in a substance Kivell's tablets, the sale not being effected by or under the supervision of a registered pharmacist. The company was also fined 40s. for selling the salt of hyoscine in a container not labelled in the prescribed manner with the name of the seller and the address at which it was sold. Prosecuting solicitor suggested that an attempt at deception had been made by a member of the company who stated that the pharmacist was at the time of the purchase at lunch, whereas in fact no permanent chemist was employed there. In defence, it was said that the qualified man had left at short notice and that the absence of the name on the container was "a pure slip."

Penicillin Act Prosecution. — Summoned by the Pharmaceutical Society under the Penicillin Act, 1947, Lewis & Burrows, Ltd., chemists, 146 Holborn Bars, London, E.C., were fined £5, with 63s. costs, at Marlborough Street, London, magistrates' court, on September 15 on a charge that, being authorised sellers of poisons within the meaning of the Pharmacy and Poisons Act, 1933, they sold at their shop 22 Gt. Portland Street, on July 11, penicillin in penicillin lozenges not under the authority of a qualified practitioner. Prosecuting solicitor stated that when, on July 11, an agent of the prosecuting Society asked for the lozenges, the lady assistant asked the agent if she had a prescription. She said she had not, but

the assistant nevertheless proceeded to serve her and accepted payment. Defending solicitor explained that the assistant was qualified in Australia, where penicillin could be freely sold, and acted in good faith in selling the lozenges, not knowing that a signed prescription was required.

Imprisonment on Theft Charges. — For the theft from his employers, May, Roberts & Co., Ltd., 47 Stamford Hill, London, N., of tooth-paste, soap, shampoos, and other articles to the total value of £18 11s., William David McEwen, a warehouseman, Stoke Newington, was at North London magistrates' court on September 12 sent to prison for four months. His wife, who was charged with receiving bath cubes, shampoos, and other articles to the value of £11, knowing they had been stolen, was placed on probation for twelve months. On a similar charge of receiving, Mrs. Mary Jane Lesner, 16 Grayling Road, Stoke Newington, and John Henry Smith and his wife, 2 Listria Park, Stoke Newington, were each fined £5. All the accused pleaded guilty. A detective constable said that Smith was stopped by the police carrying the goods mentioned in the charge.

"Token" Charge of Embezzlement. — Although Iorwerth Eilian Hughes, 146 King Edward Road, Hackney, had admitted embezzling sums of money belonging to his employers, Timothy Whites & Taylors, Ltd., East India Dock Road, London, E., since January, a detective said at Thames magistrates' court recently that an intensive check of stock had failed to reveal exactly how much was missing. "That is because of the National Health scheme," he told the magistrate; "customers don't pay for everything they get." Hughes pleaded guilty to embezzling a total of £3 from his employers. The officer said that the charges were really token ones. Hughes estimated having taken about £30, but as far as could be ascertained, stock worth £260 was missing. Hughes, not a pharmacist, was in charge of the staff of a branch and when it was busy served in the shop. He did not ring up every sale made on the till and at the end of the day pocketed the surplus cash. He was estimated to have taken between 20s. and 25s. a week in that way. No previous convictions were reported against him. Hughes was sent to prison for six weeks.

BIRTH

HANLEY.—Recently to Mary, wife of William Hanley, M.P.S.I., 108 O'Connell Street, Limerick, Eire, a son (Liam MacDara).

MARRIAGES

JAMES—WILLIAMS.—At Bristol on September 8, Gomer M. James, M.P.S., 25 High Street, Rhyl, Flints, to Ceri S. Williams, Bristol.

RICHARDS—KINGSTON.—At St. Luke's Church, Wellsway, Bath, Somerset, on September 6, John Anthony Richards to Phyllis Anne Kingston (daughter of Mr. E. T. Kingston, M.P.S., 7 Bridge Street, Bath).

HAYS—BARRY.—At the Church of Christ the King, Salthill, recently, Kevin F. Hays, Killaloe, co. Clare, to Carmel Barry (qualified assistant to a pharmaceutical chemist), daughter of Mr. P. J. Barry, M.P.S.I., the Medical Hall, Loughrea, co. Galway.

DEATHS

BARNES.—On August 31, Mr. Arthur Swaby Barnes, M.P.S., 61 Percival Road, Rugby, aged eighty. Mr. Barnes was in business in Rugby for many years before retiring five years ago.

HANDLEY.—On September 3, Mr. Arthur Handley, M.P.S., Hillcot, 18 Court Road, Swanage, Dorset, aged eighty.

HARRIS.—On September 8, Mr. Gordon Harris, M.P.S. (managing director of Gordon Harris, Ltd., 8 Beehive Lane, and 11 Redbridge Lane, Ilford, Essex). He qualified in 1916.

PERKINS.—On September 5, Mr. George Mitchelson Perkins, M.P.S., 6 High Street, Knighton, Radnors, aged seventy-six. He and Mrs. Perkins celebrated their golden wedding anniversary in June 1952.

ROBERTS.—On September 10, Mr. R. H. Roberts (for many years representative of Evans Medical Supplies, Ltd., in Manchester and district). Mr. Roberts joined the company in 1907.

PERSONALITIES

MRS. N. E. D. GOMER, secretary of the West Kent Branch of the Pharmaceutical Society, is making good progress in Beckenham hospital after an operation.

MR. ARTHUR GORDON LOCK, M.P.S., Grimsby, has presented a silver rose bowl

to the Cleethorpes sailing club as an annual trophy for national twelve-foot racing dinghies.

MR. R. W. BROWNLOW, J.P., M.P.S. (aged eighty), and Dr. J. Milne Manson, both of Melton Mowbray, Leics, playing as partners at Luffenham Heath Golf Club, Rutland, recently won the captain's prize with a score of eight up. Mr. Brownlow had a handicap of twenty.

COMING EVENTS

Sunday, September 21

NATIONAL PHARMACEUTICAL UNION, University Arms Hotel, Cambridge, at 2.30 p.m. Area meeting of members in Beds, Bucks, Cambs, Essex, Herts, Hunts, Norfolk, Northamptonshire, Oxfordshire and Suffolk. At 11 a.m., service for pharmacists at the Church of St. Mary the Great (not St. Mary the Less), Cambridge. At 12.45 p.m., luncheon in the Winter Garden, University Arms Hotel. At 2.15 p.m., ladies' excursion. At 4.30 p.m., tea in Winter Garden.

Monday, September 22

NORTH-WESTERN BUSINESS EFFICIENCY EXHIBITION, St. George's Hall, Liverpool (open until September 27).

Tuesday, September 23

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Swan Hotel, Maidenhead, at 8 p.m. Talk and demonstration on contact lens fitting by Mr. N. Bier.

READING BRANCH, PHARMACEUTICAL SOCIETY, The Swan Inn, Sherborne St. John, Basingstoke, Hants, at 7.45 p.m. "Pharmaceutical Reminiscences."

Wednesday, September 24

LEICESTER BRANCH, PHARMACEUTICAL SOCIETY, Boots' Café, Gallowtree Gate, Leicester, at 7.30 p.m. General meeting.

Thursday, September 25

HULL CHEMISTS' ASSOCIATION AND BRANCH, Premier Soap Co., Ltd., Stoneferry, at 2.30 p.m. Visit.

LEICESTER BRANCH, PHARMACEUTICAL SOCIETY, Public Health Laboratories, Groby Road, Leicester, at 2.30 p.m. Visit.

LONDON CHEMISTS' GOLFING SOCIETY, Brookmans Park Golf Club (telephone: Potters Bar 2487). Fixture.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, visit to Caley's & Morgans Table Waters, Ltd. Meet outside the company's offices in King Street at 2.30 p.m.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Solent Hotel, South Parade, Southsea, at 7.30 p.m. Mr. H. G. Moss on "Pharmacy in the United States."

Friday, September 26

INTERNATIONAL COMMERCIAL TRANSPORT EXHIBITION, Earls Court, London. Open until October 4.

WEST HAM BRANCH, NATIONAL PHARMACEUTICAL UNION, Manor Park Library, Romford Road, London, E.12, at 7.30 p.m. Annual meeting. Mr. A. Aldington (a member of the N.P.U. Executive) on "C.F. Matters and the National Window Display Fortnight."

PHARMACEUTICAL SOCIETY OF IRELAND

THE Council of the Pharmaceutical Society of Ireland met in Dublin on September 9, Mr. J. P. Kissane (president) in the chair. Also present were Messrs. M. Costello (vice-president), H. P. Corrigan (treasurer), P. Brooke-Kelly, C. J. Cremen, J. Gleeson, T. B. O'Sullivan, G. C. O'Neill, M. Power, D. J. Kennelly, T. C. Scott, P. F. McGrath, P. Fullam, A. A. Toher and Senator F. Loughman. Mr. James G. Coleman (registrar) was in attendance.

Animal Remedies Bill

A letter was read from the Department of Agriculture stating that the Minister had under consideration the promotion of a Bill to control the sale of animal remedies. With the letter were sent copies of the proposed scheme and Bill and an intimation that the Minister would welcome the observations of the Society at the earliest practicable date. Mr. POWER drew attention to a provision in the Bill giving the right to dispense veterinary prescriptions to persons other than pharmaceutical chemists, and it was agreed that the Registrar should look into it in consultation with the Society's legal adviser. On the suggestion of Mr. CREMEN, supported by Mr. McGRATH, it was decided to set up a subcommittee composed mainly of provincial members of the Council to consider the matter and report back to the next Council meeting. With the honorary officers, the following were appointed to the subcommittee: Messrs. Power, Toher, Fullam, and Senator Loughman.

The Council then considered the White Paper issued by the Department of Health recently on the proposed extension of the Health Services. Mr. BROOKE-KELLY took exception to the provision by which medicines were to be dispensed by medical officers. The doctor should keep to his own professional work and leave dispensing to the pharmaceutical chemist.

THE PRESIDENT said he thought that the provision referred to small dispensaries where medicines were dispensed on only one day a week, and Mr. COSTELLO said that members should bear in mind that the recommendations were proposals only and not the Act itself.

MR. FULLAM felt that, beyond enlarging the scope of the Poor Law Acts, the White Paper gave little to study.

MR. COSTELLO, however, said there was much in the proposals to cause them con-

cern. When a new Act had come out in 1939 it had added to the numbers who availed themselves of free medicines and treatment and they could be certain that the proposed further legislation would add to those numbers. A middle-income group was being brought in—people who would get free hospital and specialist services. Child-welfare clinics would be extended, and more and more supplies of baby foods and maternity supplies for mothers would come from those clinics rather than from the chemist. The scope of the services would be developed to the detriment of pharmacy.

Serious for Chemists

MR. CREMEN pointed out that the proposal was to establish child-welfare clinics, similar to those in Dublin, throughout the rest of the country and that they would supply not only baby foods but also proprietary articles like malt and cod-liver oil, halibut-liver oil, etc. The free supply of all maternity needs such as gamgee tissue, previously obtained from the chemist, was equally serious. If the Council could ensure that all those supplies were made available through pharmacies, instead of through the clinics, they would be doing a good day's work for pharmacists.

MR. McGRATH said that most chemists in the suburbs of Dublin would say that their sale of baby foods, etc., was declining. A joint committee of the Council and the Irish Drug Association should be formed to draw up a practical scheme to put before the Minister. They could prove to him that they could supply those goods more economically than the clinics.

SENATOR LOUGHMAN said there was a cast-iron case for distributing those lines through the medical halls. A distribution scheme should be prepared and submitted to the Minister.

MR. O'NEILL, agreeing, added that chemists in the cities and country would be affected if that type of legislation developed.

MR. COSTELLO pointed out that the White Paper scheme would more than double the number of persons availing themselves of dispensary and clinic services.

It was agreed that the honorary officers of the Society and the I.D.A., with Messrs. Cremen, Gleeson, McGrath, Brady, and any others the joint committee wished to

call upon, should form a joint committee to draw up a scheme. It was also decided that the registrar of the Society and the secretary of the I.D.A. (Mr. B. R. Smith) should attend meetings of the committee.

Messrs. T. C. Scott and P. Fullam were appointed scrutineers of the ballot in the event of an election for the seven vacancies on the Council in October.

Preliminary registrations were notified in respect of Phyllis M. Boles, Robert S. Eakin, Sheila M. T. Healy, Philomena F. Hughes, Ultan Johnson, Peter P. Keavney, Ellen F. Killion, Henrietta M. Kisanane, Patrick McDonagh, William Maher, Joseph O'Dea, Michael A. O'Dwyer, Mary T. O'Boyle, James F. Prendergast, Lorcan Ronaghan, Thomas P. Whelehan and Amongdhipaya Bunyakamon.

The following changes of address were notified:—Daniel C. Bree, L.P.S.I., to 24 Fergus Road, Terenure, Dublin; Geoffrey M. Keogh, M.P.S.I., to Killerney, Roscommon; and H. W. Salisbury, to 8 Lower Sheriff Street, Dublin.

The reports of the House and Schools Committees were submitted and approved. The latter report prompted the registrar to mention that thirteen registered druggists had entered for the night classes intensive course for the qualification of dispensing chemist and druggist, and a further twenty-four to thirty were expected to enter for the day course. It was agreed that the time spent by a student registered under the old regulations in attending the science course should count towards his apprenticeship. He had requested that.

In reply to a question by MR. KENNELLY, THE REGISTRAR said that older students who had not had an opportunity of doing a course in zoology and aseptic dispensing would not be penalised.

MR. TOHER suggested that a series of six weekly post-graduate lectures should be given in aseptic dispensing, but THE REGISTRAR thought it would not be possible to run such a course until the New Year.

THE REGISTRAR reported on the deaths of Messrs. Victor E. Hanna, M.P.S.I., Felix W. Gallagher, M.P.S.I., Robert McMullan, L.P.S.I., Charles Abernethy, R.D., and Thomas J. Eglinton, R.D. On the motion of MR. SCOTT, seconded by MR. GLESON, the Council expressed its deep sympathy with the relatives of the late Mr. Victor Hanna, a former member of the Council and an examiner.

THE PRESIDENT, who was warmly welcomed on his return from the United

States, where he had represented the Society at the centenary celebrations of the American Pharmaceutical Society in Philadelphia, promised that he would present a full report at the next meeting.

Dublin to Receive 1956 Conference

Members heard with pleasure from THE REGISTRAR that the announcement had been made at the recent British Pharmaceutical Conference in Nottingham that Dublin had been selected as the venue for the 1956 Conference.

The Licence certificates of the following were signed and sealed:—William Counihan, Michael Fleming, Liam E. Horan, Daniel D. Jackson and Anne J. Moore.

The following were elected members of the Society: Messrs. John Hanley, Michael F. Hayes, Daniel Hegarty, Peter J. Needham and Mrs. E. McMorow.

At a meeting of the Benevolent Fund Committee, held after the Council meeting, a letter was read stating that the late Mr. Patrick C. Cahill had bequeathed a sum of £100 to the Benevolent Fund of the Society. The Council passed a resolution expressing its deep appreciation of the generosity of the late Mr. Cahill, and directed that a letter of thanks should be sent to Mrs. Cahill. The Committee passed a number of grants for payment by the Society's officers.

ECHOES OF THE PAST DISEASE OF NAPLES

From "*Sylva Sylvarum*," by Francis Bacon,
Lord Verulam, Viscount St. Albans.

THE *French* (which put off the name of the *French* disease, unto the name of the *Disease of Naples*) do report, That at the siege of *Naples*, there were certain wicked Merchants that barrell'd up *Mans Flesh* (of some that had been lately slain in *Barbary*) and sold it for Tunney; and that upon that foul and high nourishment, was the Original of that *Disease*. Which may well be; For that it is certain, that the *Canibals* in the *VVest Indies*, eat *Mans Flesh*, and the *VVest-Indies* were full of the Pox when they were first discovered: And at this day the *Mortalest poysons*, practised by the *VVest Indians*, have some mixture of the Blood, or Fat, or Flesh of Man. And divers Witches, and Sorceresses, as well amongst the *Heathen*, as amongst the *Christians* have fed upon *Mans flesh*, to aid (as it seemeth) their Imagination, with high and foul Vapors."

ULSTER CHEMISTS' ASSOCIATION

At the September meeting of the Executive of the Ulster Chemists' Association, the president (Mr. W. R. McNabb) in the chair, a vote of sympathy was passed to the relatives of the late Messrs. C. Abernethy, R. McMullan and T. J. Eglinton. Messrs. D. Moore, Ph.C., Scotch Street, Downpatrick, and J. C. McCrea, Ph.C., Scotch Street, Dungannon, were elected to membership, and the following (whose applications had been approved at a previous meeting of the Associates' Committee) to Associateship:—*Ph.C.*, Mr. Desmond D. Connolly; *Assistants*, Miss Nora O'Hare and Mr. J. Darmody; *Apprentices*, Messrs. D. H. McN. Coffey, I. J. Boal, R. J. O. Corrigan, K. F. Kerr, W. McL. Taylor and S. McCormick. Various price changes were approved and accounts passed for payment.

Price List

THE SECRETARY (Miss A. E. Strachan) reported that a copy of the U.C.A. 1952-54 price list had been sent to each member. THE PRESIDENT thanked the secretary and members of the Committee who had contributed to the work of the new issue. The subscription for the year 1952-53 was fixed at £3 3s. for pharmaceutical chemists and branch shops and £1 11s. 6d. for registered druggists (no change from last year). Mr. A. E. Johnston's resignation for business reasons from the Committee was accepted with regret. The secretary was instructed to approach the Ministry of Home Affairs on the matter of complaints from provincial members concerning the Petty Sessions charges in connection with applications for renewal of methylated spirits licences.

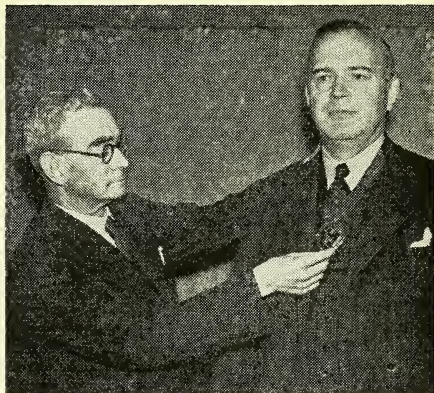
THE SECRETARY reported that the Falls and District Chemists' Association (Belfast) had recently been re-formed with Mr. W. H. Macartney as chairman and Mr. R. C. Jeffers as secretary. The president entertained the members to supper.

President Invested

MR. W. J. RANKIN (trustee and treasurer of the Ulster Chemists' Association) invested the president of the Association (Mr. W. R. McNabb) with a new badge of office in Belfast on September 9.

After describing recent developments in the Association, Mr. Rankin said that with its increasing importance the Committee had decided that the time had arrived for the president to have a badge

of office which could be worn at all pharmaceutical gatherings. He had great pleasure in investing Mr. McNabb with it. The president, in reply, said he was happy to have been invested by the Father of the Association who had the welfare of the



Mr. W. R. McNabb, Lurgan, being invested with his badge of office as new president of the Ulster Chemists' Association by Mr. W. J. Rankin (senior trustee of the Association).

members every moment at heart. "This is a unique occasion in the history of the U.C.A., and I am very glad to be in the position of receiving and being the first wearer of this beautiful work of art symbolising the trade mark of our Association," he said.

Ulster Associates Section

At the September meeting of the Associates' Committee of the U.C.A., the following applications for Associateship were approved:—*Ph.C.*, Misses N. Friel and H. I. Whiteman, Messrs. G. Moore and J. P. McFadden; *Assistants*, Messrs. J. Hynes and John G. Savage; *Apprentices*, Misses Eva Brock and A. Gault, Messrs. V. J. Hetherington, J. Keatings, H. J. Mullan, and K. E. J. Shields. Accounts were passed for payment and reports were given of the emergency committee meetings held during the summer. A report of the first meeting of the social committee was given and draft rules for that committee were drawn up by the Associates' Committee. Preliminary arrangements were made for the annual general meeting which will take place early in November. A further meeting of the insurance subcommittee was arranged.

CORRESPONDENCE

Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor

Prescription Costs

SIR,—I was interested in the N.H.S. statistics published in the *C. & D.*, September 9 (p. 308), and I find that for June 1951 each prescription cost approximately 3s. 4½d. and for January to June approximately 3s. 5½d. My figures are unchecked. Had I been asked (without knowing these figures) I should have guessed a figure much less. It will be interesting to compare these figures with those of 1952 when they are available.

London, S.E.1.

H. LATTIMER.

Matters of Professional Conduct

SIR,—I hope due consideration will be given to your suggestion (*C. & D.*, September 13, p. 371), to the effect that the decision re Matters of Professional Conduct should not be left to the Branch Representatives. You will agree, I am sure, that these people merely represent "the active minority" and that in one direction their judgment will possibly be clouded by religious convictions. I think, too, that I am correct in believing that there is no accurate definition of the circumstances that must obtain before the Statutory Committee can commence their deliberations.

Bath.

H. T. DOBLE.

Isoniazid

SIR,—We have been informed that one of the organisations marketing isoniazid is suggesting that the material produced by two companies should not be prescribed or purchased on the grounds that the material is of American origin. Since one of the companies is E. R. Squibb & Sons, we are anxious to correct this impression. Arrangements were made for the synthesis and pharmaceutical processing of Nydrazid in England long before isoniazid was placed on the British market, and as soon as our supplies were available they were offered to the Medical Research Council for clinical evaluation. Since that time, Nydrazid has been manufactured in the United Kingdom in quantities not only adequate to meet all domestic needs, but also sufficient to enable the company to export millions of tablets from the laboratories at Speke, Liverpool. No isoniazid of foreign manufacture has been marketed in Great Britain by this company.

A. F. HURLSTONE, *Managing Director.*

E. R. SQUIBB & SONS.

London, W.1.

Back to Plant Drugs

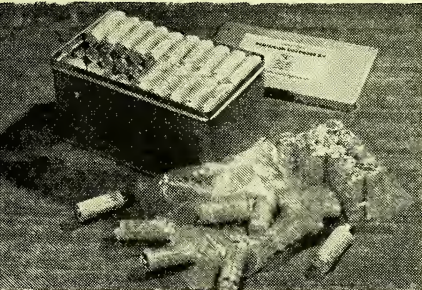
SIR,—Another B.P. Conference has passed and great credit is due to all the organisers and those who took part in preparation of papers—all for the education and amusement and general well-being of those who were fortunate enough to be able to afford the time to listen—or to enter into all the social entertainments. It might be far better for us all, however, if we gave up the production of synthetic chemical products and reverted to the study of plant life and vegetable products—and rediscovered some of the secrets of the health-giving properties of natural origin—which the every-day chemists of Arabia-Egypt-India handed down to us—throughout the centuries past. May I quote a personal experience of my own during the first world war? I was literally dying of dysentery in Mesopotamia and the service doctors, who had tried out all their skill—emetine injections, etc.—gave me up as incurable, but an old Arab herbalist at Kut-el-Amarah cured me within a week for the costly sum of 8 annas (8d.), and they can still teach us a very great deal about the curative properties of herbs and roots, etc. AN OLD-STAGER.

Pricing of Prescriptions

SIR,—If I am only one in 20,000 what I write doesn't matter; but if many more chemists think the same way then it is of some relevance. Although I am sixty-two years of age I can still solve mathematical problems and do geometrical exercises correctly, yet I cannot understand the directions that come from the Departments of Health at St. Andrews House. Therefore the type of mind that sets mathematical problems must be different from the type of mind at St. Andrews House, which is not that of St. Luke the good physician. I am not an N.H.S. contractor and have no personal axe to grind, but it is plain that under the present pricing scheme chemists in Scotland stand to lose thousands of pounds annually in the "lottery" that is a fallacious short cut to true accountancy. Would it not be better to revert to the original (*circa* 1914) carbon copy plan, when the prescription was priced while it was "hot" (i.e., immediately off the dispensing bench, when the chemist knows the name of the maker and the cost price)? The chemist would then know exactly what was due. D. D. T.

TRADE NOTES

Penicillin Lozenges in Rolls of Ten.—The "roll of ten" pack of penicillin lozenges, B.P., included in the Drug Tariff recently distributed to pharmacists and



medical practitioners, is being made available from GLAXO LABORATORIES, LTD., Greenford, Middlesex, on September 29, in a dispensing box of 100 rolls (1,000 lozenges). Each roll is foil-wrapped and "anonymously" labelled ready for dispensing. To avoid the need for opening the entire pack at once, each batch of twenty-five rolls is enclosed in a heat-sealed polyethylene bag. The Drug Tariff requests chemists to endorse prescriptions whenever the roll of ten is supplied. The tube of twenty penicillin lozenges, B.P., Glaxo, remains available, but the bottle of fifty is discontinued.—ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2, are making available the roll-of-ten pack from October 1. The lozenges are to be supplied in moisture-proof containers containing twenty-five rolls (250 lozenges). The label on each roll has space for the physician's instructions.

Holiday Closing.—The London offices of Edwards, Sons & Partners, Ltd., 32 Shaftesbury Avenue, W.1, are closing for holidays on Friday, September 19, and reopening on Wednesday, October 1. All correspondence and inquiries, etc., during that period should be sent to the company's head offices at Cleveland Buildings, 4 Market Street, Manchester.

New Small Size.—Rather than increase the price of the existing tube pack of Porrex medicated plastic skin, Scott & Bowne, Ltd., 50 Upper Brook Street, London, W.1, have introduced a new smaller size at a lower price. Until stocks of the discontinued size in retailers' hands are exhausted both tubes will be featured in advertisements. The 56-c.c. bottle remains available.

Television Make-up. — L. Leichner (London), Ltd., 30 Acre Lane, London, S.W.2, have made available for women's every-day make-up a new make-up base, Vision Klear, which is described as of "Nylon-sheer" texture. Originally made for television use, the base, Vision Klear, is obtainable in four shades: Blonde, brunette, rose peach, and sunlit peach. It is easily applied and remains fresh for many hours without drying the skin. Other details are given on another page.

An Announcement Corrected. — A whole-page advertisement for Bristow's lanolin soap in last week's issue of the C. & D., carried in error the trade terms for a sister product: Bristow's lanolin shampoo. The manufacturers, T. F. Bristow & Co., Ltd., Boston Manor Road, Brentford, Middlesex, point out that the prices of the soap are:

	Tax-inclusive retail price	Standard terms per doz.	Best terms per doz.	Special parcel terms per doz.	Purchase tax per doz.
3-oz.	10d.	6/3	6/-	5/9	2/1
6-oz.	1/8	12/6	12/-	11/6	4/2

An "Entirely New" Washing Powder. —The washing powder Surf, already advertised on hoardings and distributed to over 30,000 retailers south of a line from the Wash to the Isle of Wight, was officially "launched" on the "Wellington," headquarters ship of the Honourable Company of Master Mariners, on September 16 by the manufacturers, Lever Bros., Ltd., Port Sunlight. Surf is stated to combine the best qualities of all previous washing products without any of their disadvantages. It has been developed in the company's laboratories at Port Sunlight. Messrs. Lever are sending to nearly six million housewives in London and South-east England coupons enabling them to buy a packet of Surf at less than one-third the normal price.



NEW PRODUCTS AND PACKS

Blackleg and Lamb-dysentery Vaccine.

—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, now issue a combined vaccine containing antibodies for blackleg and dysentery. The vaccine is available in containers of fifty and 250 mils.

Moth-repelling Air Freshener.

—Racasan air freshener and moth repellent, which is manufactured by Racasan, Ltd., Ellesmere Port, Ches, is packed in individual hanging carton. It is available in six perfumes: Heather, lavender, lilac, narcissus, pine and violet, and is being nationally advertised.

Hexœstrol Implant.

—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce that Tabloid brand hexœstrol 15-mgm. implantation products, for the chemical caponisation of poultry, are now available in a tube of twenty-five and bottle of 100. Implantin brand stil-

bœstrol continues to be available in similar packs.

Chloramphenicol for Eye Drops.

—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, point out that their Alficetyn for eye drops (*C. & D.*, September 13, p. 359) contains 25 mgm. chloramphenicol, B.P., in a borate buffered base and the chemist has to add the water to make the solution of requisite strength at the time of dispensing. It is not itself in solution.

An Additional Strength.

—Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2, have made available a 1 per cent. solution of Neophryn in bottles of 4 oz. The stronger solution is intended for use by specialists to produce shrinkage of the nasal mucosa prior to clinical examination or operation. It is not suitable for dilution to produce Neophryn nasal drops $\frac{1}{4}$ per cent.

TECHNIQUE OF TUBULAR BANDAGING

A PRACTICAL demonstration of Tubegauz tubular seamless gauze bandage does much to justify the claims made for it by the makers (Scholl Manufacturing Co., Ltd., London) (see *C. & D.*, September 6, p. 318). Tubegauz is supplied as tubes (in several sizes of cross-section) of a seamless two-way stretch gauze material.

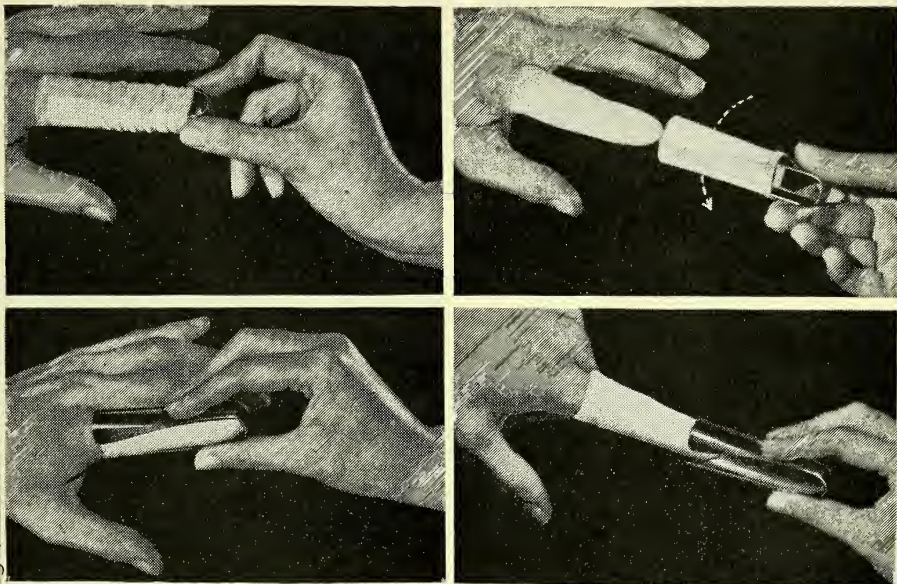
For a simple bandage—for example, for a finger—bandage of the appropriate cross-section is chosen from the range available and enough is gathered on to a special applicator. The applicator is then placed over the finger, taking the material with it. A tube of bandage thus surrounds the finger, but is separated from it by the applicator. When that is withdrawn a snugly fitting sheath of gauze is transferred to the finger. If during withdrawal of the applicator it is rotated, the pressure of the bandage on the finger is increased. The bandage can thus be locked in position at the end of the finger and by pushing the applicator back over the finger a second layer may be applied. A closed-end bandage may be formed by twisting the applicator one complete turn after it has been withdrawn. The tube thus closes round the end of the finger and a second layer is applied as before. To finish off, the end is fastened with a strip of adhesive plaster. Alternatively, by allowing more material and slitting the spare portion, a self-tying

bandage or an improvised fingerstall can be made. With wider gauze tubes, arms, legs and even heads can be successfully bandaged. If, instead of a bandage, a bulky dressing has to be applied to the finger or limb all that is necessary for successful bandaging is to use a larger applicator. Important properties of the material are its elasticity (a tube of relatively large "bore" could be made into a finger bandage) and its refusal to fray when cut.

Applicators

The applicators are modified hollow metal cylinders. A "first-aid" type resembles the handle of a pair of sugar tongs and can be opened out to take a wider tube of gauze. For hospital use there is a range of applicators in different sizes. They are cylindrical cages with ring ends. Both types are in stainless steel. In the casualty departments of hospitals the applicators can be kept "loaded" with a large supply of material and the lengths cut off.

As pressure of the bandage on the limb is increased by rotation of the applicator while it is in use, it is easily controlled. Tubegauz has been therefore found useful for varicose veins. Tension can be applied accurately to any section of a limb where varicose conditions occur. In plastic surgery, where uniform pressure over a large area is required, this method of bandaging



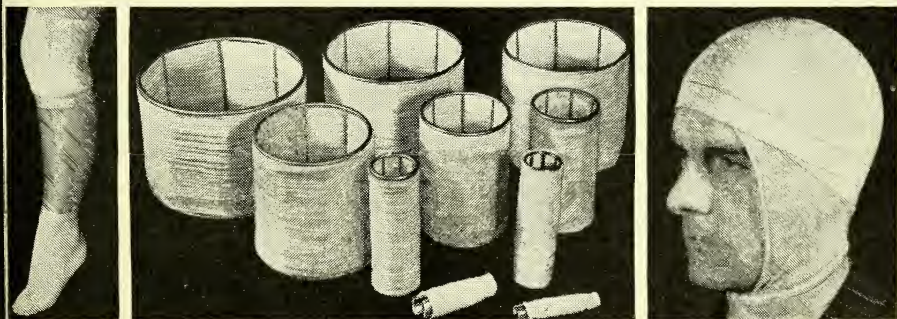
Four stages in finger bandaging: 1. Placing on the finger. 2. Twisting to close the end. 3. Applying a second layer. 4. Withdrawing the applicator after finishing off.

has been of value. When a single layer of bandage has been applied to a limb it cannot be removed by pulling on the spare end. That causes it to tighten on the limb. Thus the free end can be used for limb suspension or extension. It is claimed that Tubegauz can be washed or sterilised several times without affecting its properties. An applicator holding a length of bandage can be sterilised for theatre use or for pre-operative application. Tubegauz is also useful where smooth bandage is required to be applied before plaster.

In veterinary practice ease of application is important and Tubegauz makes bandaging possible where it may be impossible by ordinary methods. As an example, a cow's udder teat has been successfully bandaged with Tubegauz.

Tubular bandaging is claimed to cost 50 to 100 per cent. less than orthodox methods. Every London and a number of provincial teaching hospitals make use of the method.

Tubegauz is available for sale by chemists as well as for use in hospitals.



Left: Bandages for the knee and foot. Centre: Ten sizes of applicator. Right: A "helmet" bandage.

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No. 3787

Certification of Assistants

HARDLY less important to pharmacists than the ethics of their profession, the subject of the Society's policy on the recognition of assistants was discussed by Branch Representatives at the afternoon session of their September 4 meeting (p. 408). In the many branch and other meetings at which the subject has been canvassed over a long period, no very obvious crystallisation of views has occurred, but the Council "felt that the time had come when a decision should be reached."

Looking back on the discussions, it seems clear that considerable progress was made towards reaching agreement. Previously, although of course it was impossible to assess numerically the extent to which opposing views were held, there was no doubt of their irreconcilable character. Protagonists—chiefly "of the older school," perhaps—who stressed the dangers of dilution, drew upon memories of past threats to the security of the profession. It may be that some of them came away convinced that Mr. Adams, though he tended to belittle the present danger, was right when he pointed out that today it is of another kind: a danger of default. Recognition of the unqualified is not something that may happen, some time in the future. *De facto* recognition is with us today. It exists in the categories for which salaries are laid down by the Whitley Councils. The real danger of the current situation is that those recognised for salary purposes may come to be recog-

nised also, without any positive change in their status, as the equivalent of pharmacists for certain purposes. The safeguards against what might be called creeping dilution would appear to reside only in some form of screening or examination or test—call it what you will. At all events, no other effective safeguard was suggested at the Branch Representatives' meeting or has been put forward, so far as we are aware, from any other quarter. If a test is to be applied, then by whom? To quote Mr. Adams again: "If there is an organisation in this country that ought to be concerned with the subject it is the Pharmaceutical Society."

The real questions, therefore, are of how to devise an appropriate qualification, how to get it accepted, and how to prevent it from becoming confused in the public mind with the pharmaceutical qualification. To these questions some of the speakers contributed ideas and suggestions showing evidence of close and intelligent study of conditions and possibilities. Mr. Whittet, for example, put his finger on a number of risks to avoid. There should be no "assistants in dispensing" but only laboratory technicians. The technician is trained to a particular task, and neither his title nor his training would lead anybody to suppose that he could step into the shoes of a pharmacist like a stage understudy replacing a principal. For the safety of the public and the good name of pharmacy only the qualified should be in a position calling for direct contact with or advice to doctors, nurses or patients. Mr. Whittet, it is true, favoured "a certificate of competence given by the pharmacist and not under the official auspices of the Society," but it is to be doubted whether a certificate valid in a single hospital or group of hospitals would for long satisfy either the assistant, the Government (as employing authority), or the public. Uniformity of test there must be, and only a body such as the Pharmaceutical Society can provide it objectively.

The principle of accepting responsibility for training and examining technicians, or "pharmacy assistants," or whatever they come to be called, is hardly capable of being finally accepted or rejected until

more is known of the practical means by which it is intended to put it into practice. The president of the Society has promised to see what can be done to let Branch Representatives have another look at the final draft of the "code of ethics" before it is put to a general meeting of members of the Society. Let the plans for training and examining assistants come up again in the same way, and let them be accompanied by draft conditions and details of registration.

Six Years of Antibiotic Progress

GREAT advances have been made in the field of antibiotics since penicillin was discussed at a symposium session of the British Pharmaceutical Conference six years ago, and as a choice of subject for the session held this year a more timely choice could hardly have been made.

The papers and discussions showed that penicillin is still the most innocuous antibiotic, and that the greatest advance in regard to it has been in the development of stable preparations. Whereas formerly presentations for administration (chiefly injections) were stable for only a few days, today oral aqueous preparations can be prepared with a shelf life of eighteen months at temperatures described—rather vaguely, as one contributor pointed out—as "normal." By one of the ironies of time there now seems to be a swing away from the more carefully elaborated stable injections, and a reversion to simple solutions of penicillin, B.P., in high dosage and at intervals (twelve hours) convenient to patient and nurse. That situation has been brought about however, only because of the existence of pure penicillin salts. Efforts to make the administration of the various antibiotic drugs less trying to the patient by giving them orally have been hampered by the appearance—in the absence of benign bacteria as well as those attacked—by the unwanted and sometimes fatal growth of fungus. How to combat fungus in the human system remains to be explored.

Future of the Symposium Session

By its choice of subject and opening speakers the executive committee of the

Conference demonstrated an intention to maintain the wide platform and "popular" appeal of the earlier Symposium Sessions. By rigidly enforcing a quite short time-limit the chairman ensured that the largest number of people could take part in the subsequent discussions. And yet—and yet—were we wrong in thinking that this year the Session took on a pattern and flavour more like that of the Science Sessions? Certainly some of the "retail" members of the Conference, who believe that the Session was called into being to make them feel they had a share in the primary scientific as well as the secondary social functions of the Conference, considered that they were being left to flounder a little out of their depth. In any "competition" to reach the microphone they held back to give first place to the acknowledged scientists. Some waited so long that their reduced time quota hardly left them time to make their point or ask their question. And some of their questions appeared to be ignored when the time for answers came.

Next year it is the expectation of the organisers that there will be 800 to 1,000 members of Conference. It is more than ever necessary, therefore, that the "popular" character of the Symposium Session should be preserved and emphasised.

Spirit Prices

THE reduction in price of all grades of industrial alcohol (see p. 411) is welcome news for the pharmaceutical and allied industries. It will be recalled that in April 1951 the prices were virtually doubled as a result of the Cuban Government raising the price of molasses by 400 per cent. Although there has not yet been a reduction in the price of molasses, it is expected to fall in the near future. Demand for industrial alcohol has fallen—the U.S. no longer require such large quantities for stockpiling, nor do they need it for synthetic rubber manufacture—and there is a surplus sugar crop in Cuba.

The move to write down the price of existing stocks of alcohol and molasses is a bold and commendable one at a time when trade users are finding it difficult to sell their finished products.

BRITISH PHARMACEUTICAL CONFERENCE, NOTTINGHAM, 1952

Symposium Session

OPENING the Symposium Session of the Conference in the Great Hall of the University on Friday morning, THE CHAIRMAN (Mr. H. B. Mackie) said that the Conference Executive had thought it time the subject of antibiotics was cleared up, hence the subject for that morning "Recent Developments in the Pharmacy of Antibiotics." He called on the three opening speakers (Messrs. W. A. Woodard, W. Trillwood and J. O. Davidson) in turn to read their papers, abstracts of which are given below.

I

INCREASED thermostability and reduced hygroscopicity constitute the main advantages of benzylpenicillin sodium and potassium, over the impure freeze-dried salts. These qualities have made it possible to embark on universal distribution of the dry salts with an extended life of three years, and have enabled the research pharmacist to formulate products that retain their potency in tropical as well as in temperate climates. Its keeping qualities in aqueous solution are poor. Hydrolytic opening of the β -lactam ring occurs, to yield irreversibly the inactive penicilloic acid, which reduces the pH and so catalyses further decomposition. This reaction can be slowed-down by buffering at pH 6-7. Most workers consider citrates to be more effective buffers than phosphates. A new development is reported in the stabilising effect of hexamine on simple and buffered solutions of sodium benzylpenicillin. It is unfortunate that the 1951 Addendum to the British Pharmacopoeia, 1948, should permit the use of suitable buffering agents in making injection of penicillin and should at the same time reduce the period of storage in a refrigerator from seven to four days. Of long acting preparations for parenteral use procaine penicillin oil with 2 per cent. aluminium stearate is of unusual interest, involving problems of particle size and rheology. The addition of the stearate stabilises the suspension and ensures a therapeutic level in the blood over a much longer period than was possible with ordinary procaine penicillin in oil.

Ultra-fine grinding of the procaine penicillin under sterile conditions with highly specialised machines operating on the fluid energy principle is necessary to give

the correct size-reduction (90-100 per cent. under 5μ). Aluminium stearate suspensions of procaine penicillin G retain their potency for at least twelve months at room temperature.

Non-ionic wetting agents are normally employed in formulating aqueous suspensions for extemporaneous use; the polyoxyethylene ethers of partial higher-fatty acid esters of sorbitans (e.g., Tween 80) and suitable mixtures of the fatty acid esters of polyethylene glycol are typical examples. For the hydrophylic colloid many substances, such as gelatin, pectin, dextrin, alginates, tragacanth and the water-soluble salts of carboxy-methylcellulose have been suggested. Stabilised aqueous suspensions of procaine penicillin (ready prepared) contain buffering, suspending and wetting agents.

The main advantages of drain-clear containers (made by silicone treatment) for antibiotic suspensions are economy, more accurate dosage, and improved æsthetic appeal.

DBED Penicillin

The penicillin salt of N,N'-dibenzylethylenediamine (DBED) is nearly insoluble in water. Pharmacological and histological studies in animals after its injection in watery or oily media, accompanied by extensive feeding tests showed that DBED dipenicillin G (consisting of 2 moles of penicillin to 1 mole of base) compares favourably with procaine penicillin (control). Subsequent studies in man were equally promising. The penicillin salt of N-methyl-1, 2-diphenyl-2-hydroxyethylamine (1-Ephenamine penicillin G) (the salt of a base possessing anti-allergic properties) is claimed to produce less sensitisation.

Penethamate hydriodide, which concentrates penicillin in lung tissue particularly when that is inflamed, has a shelf life in dry form of at least two years. If stored in a cool place (below $25^{\circ}C$), sterile aqueous suspensions retain their potency for a maximum of seven days and for at least thirty days in a refrigerator ($4^{\circ}C$).

To mask the unpleasant taste of penicillin orally, new liquid presentations have been developed, most of them designed to facilitate mixture of the antibiotic with

the vehicle at the time of dispensing. The life of the dispensed solutions is restricted to seven days, during which they must be stored in a refrigerator. The advantages of low solubility, stability and absence of taste enable N,N'-dibenzylethylenediamine dipenicillin G to be presented as a palatable ready-to-use oral suspension said to be stable for eighteen months at normal temperatures.

Attention has been drawn to the effect of wool alcohols on the stability of penicillin ointments. Further studies have confirmed the adverse effect on stability that this ingredient can have. Hard paraffin, though less damaging than wool alcohols, is also contra-indicated. Carbowaxes (high molecular weight polyethylene glycols), m cetyl-stearyl alcohol, self-emulsifying stearyl alcohol, cocoa butter, Lanette wax "SX," Polychols (water soluble polyoxyethylene condensation product of wool wax alcohols) and many ionic and non-ionic surface-active agents are also destructive to the antibiotic. The best method of presenting penicillin ointment is in collapsible tubes. Deterioration found in pots and Petri dishes is noticeably greater. A new development has been the introduction of a stabilized high-potency cream of procaine penicillin containing some 50 per cent. of water and possessing a shelf-life of twelve months at room temperature.

Streptomycin and Dihydrostreptomycin

Except for very dilute solutions, saline is contraindicated as a streptomycin solvent because of the risk of irritation from excessive hypertoxicity.

Dry mixtures of streptomycin or dihydrostreptomycin, or both, with penicillin (sodium or procaine salts or both), for extemporaneous dispensing, are also coming into use. They provide in one injection a "broad spectrum" antibiotic preparation exploiting a useful synergistic action against mixed infections. Formulation follows the same pattern as that described for procaine penicillin in aqueous suspension.

New Antibiotics

Chloramphenicol.—The low solubility of chloramphenicol in water complicates the preparation of parenteral dose forms, but solutions in acetyldimethylamine may be diluted with water, saline or dextrose solution without precipitation. Care must be taken to add the antibiotic solution to

the diluent and below its surface.

Aureomycin.—In exceptional cases it may be desirable to administer aureomycin intravenously. A leucine buffer was formerly employed for this purpose, but has since been replaced by sodium glycinate because of the tendency of the former to cause thrombophlebitis. Ophthalmic drops are prepared by adding water to a mixture of the hydrochloride, sodium borate (buffer) and sufficient sodium chloride to render the solution isotonic. Solutions should be recently prepared.

Terramycin.—Terramycin is well absorbed orally. A proprietary elixir containing 250 mgm./mil (as hydrochloride) in a buffered diluent with 20 per cent. of alcohol, has a pH of about 2.5 and a life of two weeks at room temperature. Lowering the alcohol content or raising the pH causes precipitation of terramycin with decreased stability.

Antibiotics in Veterinary Medicine

The success achieved with intra-mammary injections of penicillin and other antibiotics in controlling and eradicating bovine mastitis has called for the development of effective dosage forms in collapsible tubes with specially designed nozzles to facilitate convenient administration. A growing importance is now attached to antibiotics in nutrition.

Eighty-seven references are given.

II

To ensure maximum potency at the time of injection, penicillin should be dispensed as a dry sterile powder, and the pharmaceutical procedure should be to supply that powder, a sterile solvent and sterile apparatus.

For the comfort of the patient and having regard to the properties of penicillin, the pharmacist should provide a sterile syringe service, so that each and every injection is given with a clean dry sterile syringe and a dry, sharp sterile needle.

For intrathecal injections of penicillin and streptomycin a solution containing a precise concentration of the antibiotic is required, and must be prepared by the pharmacist. The directions in that case for storage at low temperature must be ensured by careful labelling, by the regular inspection of ward stocks, and by the withdrawal of out-dated material. In Oxford now, with few exceptions, penicillin B.P. in high dosage (500,000 i.u.) is given in acute infections, at twelve-

hourly intervals. The injections are therefore given in the patient's waking hours. The high dosage provides a germicidal concentration to a wider range of strains of bacteria than procaine-penicillin, intermittently it is true.

It is my submission that the performance of sensitivity tests is not a pharmaceutical procedure. In requesting sensitivity tests, the physician wants to know what organisms are present, what is the antibiotic of choice, and what is the degree of sensitivity. For practical purposes the organisms should be reported simply as "sensitive" for those with a sensitivity below 10 i.u. per mil or "insensitive" where the sensitivity is above 10 i.u. per mil. The dosage rule for "sensitive" organisms (and in cases where a sensitivity test has not been done) should be a high dosage immediately, continue for a short period of three to five days and then stop.

The collateral use of *p*-aminosalicylic acid with streptomycin prevents or delays the tubercle organism from developing streptomycin resistance. *p*-Aminosalicylic acid is a gastric irritant and has an unpleasant metallic taste that cannot be disguised by flavouring. Many patients tolerate the unpleasant taste by dilution; instead of taking a draught of 1 fl. oz. the dose is diluted with water to half a pint.

A Blessing Not Unmixed

The shift from antibiotics given parentally to those effective by mouth is of obvious merit at first sight to both patient and physician. But the blessing of avoiding an injection procedure is not unmixed. The elimination of the normal bacterial flora of the intestinal tract has occurred with the oral antibiotics. Not only does the sterilisation of the gut necessitate supplementary administration of vitamin B complex, but a still more disturbing condition may arise. With the sterilisation of both pathogenic and benign organisms, the field seems to be clear for fungal infections, and already deaths have been reported from yeast and *Monilia* infections following the use of oral antibiotics. So far no agents are available for clinical use in systemic fungal infections. As the oral antibiotics become more widely used the demand for fungicidal drugs will increase and no doubt the experience and technique of plant pathologists and mycologists will be exploited.

A table showing the range of sensitivity

ties and the optimum pH conditions for antibiotics is appended to the paper.

III

THE connection with antibiotics of pharmacists in general practice is limited to three: Penicillin, streptomycin and chloramphenicol, and although such restriction would appear to simplify our task, in actual practice we find that the number of preparations of these three substances has not only become very numerous but is increasing. For private patients in nursing homes it is my practice to supply daily doses only of penicillin injections. Present-day tendency, however, is towards the original mode of use, that is, by sterile aqueous solutions at higher concentrations. For infections of the mouth and throat, penicillin lozenges, B.P., pastilles and even chewing gums are prescribed.

An aural insufflation containing 5,000 i.u. of penicillin per gm. of sterile sulphathiazole is frequently required for use in a Cade's insufflator. Oily penicillin nasal drops are also prescribed at a concentration of 5,000 i.u. per mil. It is prepared by dissolving the penicillin in a small amount of distilled water, adding 1 per cent. of Phenoxetol as a preservative and making to volume with Eucerin oil. Other forms of presentation which are called for from time to time are creams, dental cones, dressings, ointments and pessaries, most of which are now available commercially.

Of streptomycin preparations for injection, a sterile aqueous solution of streptomycin calcium chloride complex is most frequently used and the usual strength is either 0.5 gm. in 2 mls or 1 gm. in 5 mls.

Where streptomycin is prescribed for infections of the eye it is used in the form of eye drops having 10 mgm. of streptomycin per mil of sterile normal saline. An eye ointment containing 0.5 per cent. of the drug in sterile eye ointment base is also used. Pessaries containing 100 mgm. of streptomycin together with 50,000 i.u. of penicillin are also in use. They may be prepared by using oil of theobroma, care being taken to ensure that the streptomycin crystals are finely powdered to avoid the possibility of small crystals gravitating to the points of the pessaries before they set.

Chloramphenicol may be given, as a flavoured suspension in the form of a palmitate, to infants and children who are unable to swallow capsules. That suspen-

sion of a non-bitter derivative hydrolyses in the small intestine, liberating chloramphenicol. Two teaspoonsful of the preparation are equal to one 250 mgm. capsule. For eye treatment drops may consist of either 0.25 per cent. solution (which is a saturated solution) or a 0.5 per cent. borate buffered solution of the drug. A cream may be produced by the admixture of 1 per cent. of the drug with hydrous emulsifying ointment. Powders, for dusting on to wounds or as an aural insufflation, contain 2 to 3 per cent. of the drug in sterile lactose. Where any but very small quantities are being prepared, it is advisable to dry the lactose prior to sterilisation by dry heat. Where ear drops are required a simple 10 per cent. solution in propylene glycol is suitable. Recently, a suspension of 1 gm. each of chloramphenicol, streptomycin and sodium caprylate with 3 mls of propylene glycol, has been required for insertion into inflammatory root areas of teeth via the root canal. The function of sodium caprylate is to inhibit the action of the yeasts which are unaffected by the antibiotics.

Discussion

Before opening the discussion, THE CHAIRMAN announced a time limit of three minutes for each contribution.

MR. H. A. TURNER, Nottingham, said that the B.P. monograph on benzyl penicillin stated that it was so stable that it could be heated at 100° C. for four days in an open vessel and lose only 10 per cent. of its potency. That was not bad going.

MR. A. F. CALDWELL, Singapore, appealed to authors to specify temperatures more accurately than by the word "normal." Temperature ranges varied according to the part of the world. Caprylates might prove of help in counteracting fungus resulting from the use of antibiotics, a sphere in which research was urgently needed. Aureomycin and chloramphenicol preparations for injection might overcome that and the vitamin-deficiency difficulties. Sensitivity might result if the patient did not carry out instructions when he was given penicillin orally.

MR. A. STERLING, London, asked for information on time and cost of treatment. No mention had been made of the use of compounds delaying excretion, particularly of penicillin. Chloramphenicol palmitate could be used for adults who found tolerance of the capsules difficult.

MR. J. A. MYERS, Bradford, asked Mr.

Woodard for a formula for a solvent for aureomycin and chloramphenicol, and Mr. Trillwood for details about staff and costs involved in providing a syringe service.

MR. P. CLAPHAM, Speke, said that four days seemed a short time for storage of buffered solution of penicillin. Care should be exercised before advancing the use of soluble penicillin in place of procaine penicillin. He suggested high dosage of soluble penicillin along with the procaine penicillin, and advocated the use of sodium carboxy methyl cellulose in small quantities as a stabiliser of suspensions.

MR. J. H. OAKLEY, London, agreed with Mr. Woodard that the penicillin ointment base in the Supplement to the Pharmacopœia was an advance on the previous formula. Ointment made to the Supplement formula lost only about 5 per cent. of its activity when stored at temperatures up to 35° C. for twelve months, in his experience. Penicillin lozenges were so stable that there was no significant loss after storing at the same temperature for twelve months. High humidity had an adverse effect, for lozenges stored under such conditions had no activity left at end of one month even if the storage temperature was 5° C. Solution tablets appeared to have stability similar to the ointment, but after suitable buffering no loss in activity had been observed after eight months' storage. It was a pity that the formula for penicillin eye ointment base had not been altered by the Supplement.

Topical Powders

MR. T. D. WHITTET, London, said that, so far as topical powders were concerned, they at University College Hospital had almost entirely abandoned sulphonamides since penicillin in lactose had been introduced. They had also used streptomycin and sulphacetamide in certain cases. They had found a potency loss of 40-50 per cent. on heating potassium penicillin at 150° C. for one hour. He had seen nothing published about the stability of chloramphenicol, but they had satisfactorily sterilised dry powders containing it at 150° C. for one hour. They had found chloramphenicol crayons useful for premature babies. A chloramphenicol intrathecal injection containing 2.5 mgm. per ml could be sterilised by autoclaving.

Sensitivity Tests

MR. F. H. OLIVER, Sunderland, thought

that pharmacists should undertake sensitivity tests. Having trained pharmaceutical students in bacteriology it hurt him to hear it implied that pharmacists were not capable of doing those tests. The conducting of tests and supplying of the antibiotic was in his opinion pharmacy, as distinct from dispensing.

MR. J. C. HANBURY, Ware, thought that in the use of the newer antibiotics the blood disorders were so serious, and the dangers of misuse so great, that the low toxicity of penicillin seemed to call imperatively for the continued use of that drug. He asked about information on local application of penicillin and use of lozenges. The sucking of lozenges was undesirable, but even the experts would not give it up. The usefulness of ointments and creams was not sufficiently realised. Topical application might give dramatic results without need of injection. Pharmacists should be fully acquainted with the properties, dangers and proper use of the antibiotics.

MR. R. L. STEPHENS, Brighton, appealed for the use of plastic or Nylon plugging for bottles holding dry antibiotic preparations, as those substances held less moisture than the usual plugging of cotton wool (about 1 per cent. as against 8½ per cent.). The inclusion of a coloured silica gel moisture-indicator in the bottles would be helpful.

MR. E. MATTHEWS, Portsmouth, asked for information on the use of intra-arterial injections and on the use of spreading agents such as hyaluronidase with antibiotics. Referring to allergic reactions, he asked if it would be pharmacologically sensible to formulate antibiotics with an antihistamine.

MR. D. M. BRYCE, New Barnet, asked whether any tissue reaction had been observed from sodium carboxy methyl cellulose. A speaker from Speke said that the difficulties of choosing the right bacteriostat would increase with the increasing use of multi-dose containers.

MR. J. R. ELLIOTT, London, mentioned that at St. Bartholomew's Hospital, London, it had been found possible to reduce the concentration of aureomycin in ointments of the preparation without decreasing its effect. He disagreed with Mr. Trillwood that dry powder was the best form in which to send antibiotics to hospital wards. The hospital pharmacist could make the solution more accurately than nurses or others in the wards, and they

could make the solutions more cheaply by producing them in bulk and in multiple-dose containers for storage in the ward refrigerators.

MR. A. MARSH, Brighton, thought that to say that the laboratory technician should perform sensitivity tests was a delegation of responsibility.

MR. R. W. GILLHAM, Leeds, described four unusual topical preparations that he had made. They were penicillin and blood plasma; penicillin tampons (prepared by impregnating an unmedicated tampon with penicillin cream); penicillin talc; and di-hydroxystreptomycin as a bulk injection containing 50 gm. of the drug in 50 mls of solution. The solution was of a treacly consistency.

DR. E. I. SHORT, Beckenham, suggested that the danger of indiscriminate use of antibiotics could be overemphasised. Sensitivity tests were useful; the method of assessing results should be related to blood levels.

At this point, to allow all who wished to contribute an opportunity to do so, MR. MACKIE asked speakers to limit their remarks to one minute.

Injections "Going Off" ?

MR. H. WILLIAMS, Reading, thought that general practitioners were becoming more inclined to give penicillin in mixture form, and that they were "going off" injections. How was a mixture containing "so many thousand units of penicillin best dispensed?"

MR. M. A. HERDMAN, Speke, said that in his experience the dermatologist bemoaned the topical use of penicillin; much of their work was the putting right of damage caused by such use in general practice. It had been said that the true function of pharmacists was to know all about drugs, and manipulation that of their assistants. How could information be collated, he asked? That might form a topic for a future symposium session.

MR. S. POWLSON, London, said that he had had to meet an increasing number of demands for topical applications of the more modern antibiotics. A suspension of chloramphenicol for application to a post-operative cavity could be sterilised by heating at 105° C. for one hour, he had been told. Problems arose in the preparation of aureomycin in concentrated solutions for use as aerosols.

MR. C. W. ROBINSON, Liverpool, asked how far it was desirable to increase the

palatability of such preparations as penicillin lozenges, and suggested that there should be standards of colour and flavour.

MR. H. TREVES BROWN asked Mr. Trillwood to what extent the vitamin B complex was still administered with penicillin.

MR. D. F. SMITH, Bournemouth, said that he had successfully used polyvinyl pyrrolidone as a suspending agent for chloramphenicol for use in cavities. American workers had administered penicillin and streptomycin concurrently, but penicillin or streptomycin plus the other antibiotics seemed to be antagonistic.

MR. J. JACOBS, Sunderland, asked for information on the group of antibiotics that included bacitracin and tyrothricin which, though too toxic for parenteral use, were suitable for topical application.

MR. F. G. WELLS, London, asked whether the discussion had been of interest to retail pharmacists for he had noted that most participants had been in manufacturing or hospital fields. How was the retail pharmacist to acquire the clear knowledge to pass on to the doctor that had been already mentioned? He had misgivings about how doctors would take it if advised how to prescribe. "The snag is in multiplicity of preparations," he said. Manufacturers were bringing trade names into antibiotic preparations and were looking at antibiotics commercially.

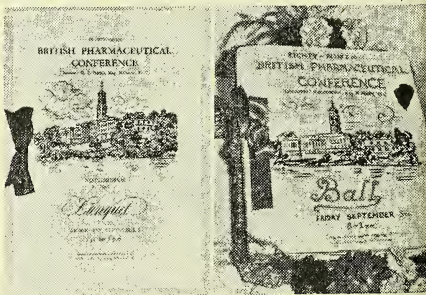
Replies

MR. W. A. WOODARD agreed that a definition of temperature was necessary. Tweens and similar products could be used as suspending agents in suspensions of antibiotic preparations, but that was not so good as aluminium stearate when properly formulated. He told Mr. Stephens the use of plastic materials for packing antibiotic preparations had the additional advantages industrially of saving time and labour. Parenteral solutions of streptomycin with penicillin were widely used in America, the preparations giving a wide-spectrum effect. The shelf life was limited by the stability of the penicillin. He told Mr. Bryce that the name sodium parahydroxy methyl cellulose was generic, and that there were many grades of the product. Animal and then human trials of the product would be necessary. The B.P. in its standard for penicillin lozenges, should have specifications about colouring, flavouring, and especially water content.

MR. DAVIDSON said that the use of suspensions in dentistry would take a long

time to investigate. There should only have been a sterile cream of penicillin. The use of cream was on the way out but ointments were still used in considerable amount. He still got a considerable number of prescriptions for injection of penicillin. He knew of no solvent other than water for penicillin.

MR. TRILLWOOD said that 30 to 35 per cent. of all patients at Oxford had resistant organisms. The position was very serious and was possibly due to the use of delayed penicillin which gave long periods of bacteriostatic levels and to underdosage. Penicillin in correct dosage was a bactericide and should be used as such. The best time to strike bacteria was at their stage of active metabolism. A syringe service was expensive but it saved syringes. The breakage rate at his present hospitals was now less than 0.2 per cent. Concerning sensitivity tests he said that if he were a doctor and submitted a sample of pus for such a test he would want to know what organisms were present and the drug of choice. It required a skilled bacteriological operation beyond the scope of the pharmacist. Local applications were not used to any great extent in general work. In answer to the question "why keep penicillin dry," he said that having provided a sterile syringe service his department had "gone all the way" to ensuring that the patient had what the prescriber ordered. The nursing staff did not regularly turn over stock and the best thing was to keep the penicillin dry and allow the nursing or medical staff to add the water when required. He had not been able to hear what the other speakers had asked. But in reply to Mr. Treves Brown, so the vitamin B complex with penicillin was not used to any large extent.

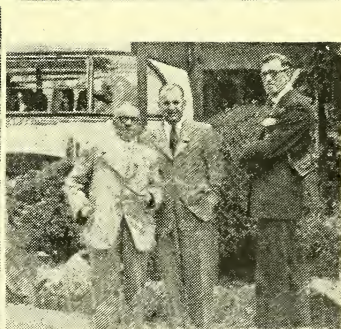
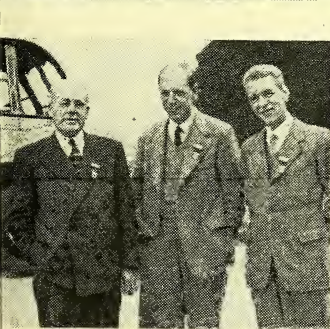
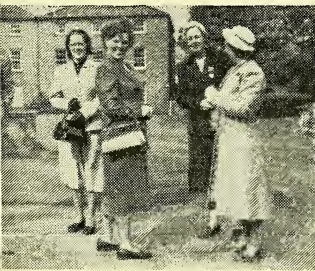
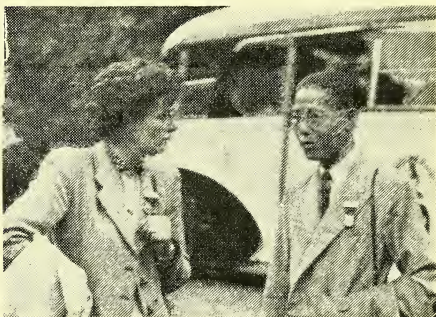


Left: Conference banquet menu presented by the C. & D. Right: Buffet centerpiece in confectionery on display at the Conference ball.

More Pictures of Conference Scenes



Above : Not a jet aircraft but one of the architectural features pointed out by the official guide at Southwell Minster turns the gaze of excursionists skywards. Top right : A group of young members of Conference. At right : A lady member asks Mr. K. C. Lee about pharmacy in Malaya. Below : A four-cornered conversation interrupted by the cameraman; visitors at Newstead Abbey, stepping it out. At foot of page : Messrs. J. McGregor and J. W. Gamble, Belfast, with Mr. G. O'Neill, Dublin; Mrs. and Mr. Eric Knott, Edinburgh; Messrs. W. Spence Culbert, Airdrie, R. McCrone, Glasgow, and Dr. D. Ritchie, Edinburgh.



REPRESENTATIVES DEBATE ASSISTANTS

Afternoon Session of the September 4 Meeting at Nottingham

At the afternoon session of the Branch Representatives' meeting on September 4, the members discussed the Report on Assistants in Pharmacy (Appendix B). Introducing the question, THE PRESIDENT said the report indicated the attitude and policy of the Council in a matter that had been discussed at a previous Conference without any decision having been taken. It had been discussed also at Branch meetings throughout the country and had been the subject of resolutions submitted to the Conference in 1951.

The Council felt that the time had come when a decision should be reached, and representatives were therefore invited to give them their views.

" Grave Danger "

MR. W. COOPER, Bristol, said he had been consistently against any form of enlisting of certified assistants. He thought that course to be fraught with grave danger. It seemed to him a great pity that the feeling of the members of the Society in general had not been taken. If the matter had not arisen in time for that to be done for Council election candidates to give their views on it, then surely two months was all too short a time to give to such an important and extremely controversial subject.

MR. J. A. MYERS, Bradford, agreed that a lot of work of a routine nature needed plenty of assistants to do it. He agreed that work in a pharmacy should be controlled by a pharmaceutical body. The Council considered that the problem could best be solved by creating a class of trained and examined assistants. With that he agreed. But it was rather bad to think that a girl, after about six months in a pharmacy, dispensed to any extent, even though she was doing it under supervision. He thought the public should have some protection. "I do not agree," said Mr. Myers, "with the creation of a class of pharmacy assistants which would give to this work a status and a career value, for we already have this career value given by the Whitley Council." Nobody could convince him of high status on £5 or £6 per week. All they were going to do was to add one more to the list of examinations that would be recognised by the Whitley Council.

MR. E. CRONIN, Manchester, said his Branch was of the opinion that the Coun-

cil could not now just sit back and take no notice. Whether they liked it or not, unqualified assistants in pharmacy were recognised in manufacturing, retail and hospital services. They had a standard of payment according to the Whitley Council. There were various types of work, of course, that they undertook, but his Branch was of opinion that they should now go to the point of recognition. If there were to be an examination there should be a big gap between it and that of the pharmacist.

The period of training should be two years and the training should be in skill in pharmaceutical practice rather than in the deeper theoretical side of the subject. When making application to be put on the register, the applicant should obtain a certificate from the Society and from the employer as to good conduct, capabilities or otherwise. The certificate should be submitted to an agreed examination body, and the candidate should take a simple examination in the practical side of pharmaceutical work. The pharmaceutical assistants' register should be put under the jurisdiction of the Council, and in the regulations relating to the employment of pharmaceutical assistants it should be laid down that the proportion of pharmaceutical assistants should be not more than two to one pharmacist.

Any person on the pharmaceutical assistants' register, if trained as a retail assistant, should be allowed to take employment in either hospital or manufacturing pharmacy and still remain on the register of pharmaceutical assistants. Similar transfers from the other two sections should not take place without a period of training in the new section.

" Misleading " Name

MR. T. D. WHITTET, London, said he was not an official representative, being more used to speaking "in another place," but would like to give the view of the hospital pharmacist. He deplored the Whitley Council term "assistant in dispensing," which was misleading. Already he had had applications from people who had described themselves as qualified assistants in dispensing because they had been given a certificate saying that they could do their particular hospital duties. "In hospital pharmacy," he said, "we want no assistants in dispensing, but tech-

cians, people who do purely technical work of a routine nature. I am very much against the title 'assistant in dispensing,' should like the term 'laboratory technician' used. I think there is a useful place for these people in pharmacy." His own opinion was that every person who was in contact with the medical profession, the nursing profession, or the public, and might be required to give advice on some subject, ought to be a pharmacist. Every person in charge of a section of hospital pharmacy—the sterilisation laboratory, in-patients' or out-patients' departments—must be a pharmacist. They must have a sufficient nucleus of qualified staff, so that they always had qualified people on duty. They must have adequate supervision of unqualified staff, and he would restrict their duties entirely to routine things, such as filling and sealing ampoules.

If they gave the title "assistant in pharmacy," and particularly if the assistants were given a certificate as the result of an examination by the Pharmaceutical Society, the wording of the certificate could avoid any phrasing that gave the public the impression that the holders were pharmacists.

They should restrict the examination to an internal one, in, say, the hospital where the person was employed, and it should be more or less a certificate of competence given by the pharmacist and not under the official auspices of the Society. The public were too ignorant of the difference between a pharmacist and a dispenser. They thought they were the same thing, and that would lead to confusion again. He made a plea to pharmacists to call themselves pharmacists all the time. No pharmacist should be called a dispenser. They must have the proper title of pharmacist or pharmaceutical chemist.

Service-trained Personnel

MR. J. E. ADDERSON, Leicester, asked what would be the position of such people? Service-trained personnel? Would they automatically be given the new qualification? His own experience was that their standard of training was low.

MR. M. JACKSON, Leeds, asked for a platform statement on "other quarters" referred to in paragraph 9. What was the Society afraid of?

THE PRESIDENT: There is nothing in this document to indicate that the Council is afraid of anything at all. It is of course considering that other people are interested in this policy.

MR. W. WILKINSON, Manchester, asked how the position outlined in paragraph 9 had developed. Who were the mythical people who would do this job, and under what circumstances? "If you are being forced," he said, "as far as Manchester is concerned, we are with you. If not, we don't want to rush into a position absolutely fraught with danger, and which will require the closest possible co-operation of all concerned and some very clear thinking."

Secretary's Views

MR. ADAMS said he would like to deal first with the main point: the question of danger. As the Council saw it, if there was any danger—and he thought a great deal too much reference had been made to that—it was not in anything they did. The situation was much more likely to work out to their disadvantage if the matter was not tackled by the Society. The feeling that there might be some development which threatened the standing or the status of the Society's qualifications seemed to him to be based upon arguments that had no reference whatever to this particular case. It was doing less than justice to the members of the Council to suggest that anything in the document could be read as a threat, which could not be dealt with by the Society.

It should not be difficult to read the signs of the times and to realise that changes were taking place which interested other people and, in particular, the Government. As they knew, a committee was inquiring into the pharmaceutical services in the hospitals—a committee set up at the request of the Ministry of Health. One thing that body was obviously dealing with was the question of staff. In the hospitals there was a class or grade of dispensing assistants set up for pay purposes, and reference was being made to the fact that standards were being applied. The standards were already on the certificate of the Society of Apothecaries and the certificate of the Society of Assistants of Dispensing.

The Council's action was being taken, therefore, as the result of modern developments. It was evident that the matter was capable of extending beyond that—to the questions what sort of staff should be employed and what was the establishment of a hospital in regard to pharmaceutical staff. All those things had got to be decided by the employing authority,

which was ultimately the Government, though day-to-day affairs were managed by the local hospital management committees.

That was the position. Were members of the Society going to say that they did not concern themselves with the character of the training of the people employed in pharmacy who were not pharmacists? Here was a purely pharmaceutical matter. If there were an organisation in this country that ought to be concerned with the subject it was the Society. The Society should have a policy that reflected its determination to control the conditions under which people who were engaged in that type of work were employed.

The question of title was, of course, as the report suggested, not particularly easy. "Pharmacy assistant" was felt to be the term that most clearly described all the people concerned.

As to training, indication had been given in the document as to the character of the training and examination. The purpose and value of the assistant were essentially in doing practical work, which did not present any new problems. Except for a certain amount of theoretical knowledge in chemistry, the training should in the main be received in the conditions under which the person was going to work, and not in a school of pharmacy.

The influence of the Society, Mr. Adams concluded, could only be enhanced if, in fact, it did assume responsibility for the training and examination of people of that class.

After further discussion, a statement was made by Mr. H. N. LINSTEAD (one of the secretaries of the Pharmaceutical Society of Great Britain), but Mr. Linstead requested that his remarks should not be reported.

Aberdeen Memorandum

MR. W. A. PARK, Aberdeen, said his Branch had prepared a memorandum on the subject, from which he quoted the following extracts:—

"It is imperative to comply with the Pharmacy and Poisons Act that pharmacy, and in particular, the dispensing of the prescriptions under the National Health Service, should be practiced and carried on by, or under, the direct supervision of registered pharmacists. Therefore it is desirable and imperative that the organisation and administration of pharmaceutical personnel be maintained within the framework of the Pharmaceutical Society.

Persons engaged in pharmacy who have been trained (but are not qualified) have proved valu-

able members of the pharmaceutical team, working under the direct supervision of registered pharmacists. It is therefore reasonable to expect the Society to make some provision for the training of such persons so that a measure of uniformity may be introduced to the advantage of all concerned.

A survey of pharmaceutical personnel, other than pharmacists, would make available to the Society the names of all unregistered persons engaged in pharmacy with a view to assessing their suitability for inclusion in a suggested Panel of Pharmaceutical Assistants. The Aberdeen Branch is of the opinion that only the Society is competent to assess the suitability of a person to act as an assistant, under supervision, to one of its registered members.

The only person who can train such a student in pharmacy is the pharmacist, and it would follow that the Society should be the natural organising and administering body. The indenturing of such persons would obviate the disadvantages of (a) having no regular training and (b) having training of a nondescript type and subsequent examination and assessing by outside bodies, owing no allegiance to the Pharmaceutical Society.

The memorandum also proposed that the minimum standard for the Panel should be not less than, say, four years indentured apprenticeship, followed by test or examination in practical pharmacy and that the number of such persons who might work under the direct supervision of one registered pharmacist should be not more than say one assistant and one apprentice or say two assistants or two apprentices, as the Society might approve.

Full Discussion Sought

MR. H. WILLIAMS, Reading, sought to make a proposition that the Draft Statement on Matters of Professional Conduct should not be submitted for adoption until a general meeting which should follow a branch representatives' meeting.

MR. M. JACKSON, Leeds, who seconded, felt that the branches, through their representatives, should have an opportunity of looking at the draft before it was put to the Society's annual meeting, because if it survived a Branch Representative meeting it would have greater authority when it came before the general meeting. If necessary, MR. JACKSON suggested special annual meeting. THE PRESIDENT said the Council would see if it were possible to make the arrangement suggested. If it could be done, it would be done.

MR. H. J. NEWITT, Wimbledon, moved and MR. M. JACKSON, Leeds, seconded, a vote of thanks to the president for the able manner in which he had conducted the meeting. It was carried with applause.

TRADE REPORT

Not quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, SEPTEMBER 17

MANUFACTURERS of INDUSTRIAL ALCOHOL and METHYLATED SPIRIT reduced their selling prices on September 15 in anticipation of a fall in the world prices of molasses. Announcing the reduction in price of industrial alcohol, one of the large distillers stated that the cuts have only been made possible at the present time by writing down large stocks of molasses and alcohol by a considerable amount out of reserves previously created for such a contingency. The step was deemed necessary to assist users whose trade in home and export markets has been adversely affected by the present "high prices resulting from the abnormally high price of molasses." All grades of ACETIC acid were reduced in price on the same date. For B.P. GLACIAL the reduction was 2 pence per ton. Lower prices were also recorded for ACETIC ANHYDRIDE, and certain ester solvents. The new price for acetic acid may eventually affect the price of ASPIRIN. After several price falls during the year ZINC OXIDE has risen by 10 pence per ton from September 15. This followed an announcement by the Ministry of Supply that ZINC METAL would be increased by £4 per ton from September 13. It will be recalled that the metal was increased by a similar amount exactly a month ago, but on that occasion the oxide prices did not change.

BOTANICALS were in slightly better demand during the week, though buying was mostly on a small scale. The forward position of IPECACUANHA became clearer as more inquiries for the commodity were made. West African KOLA NUTS (halves) were fractionally easier on the spot. PROPHANTHUS *Kombé* eased by 2s. per cwt. on the spot. The present crop of prime low CARNAUBA WAX at origin is said to be sold and there remains only the spot material here to meet the consumers' requirements until the new crop is ready.

Brazilian production of the wax during 1952-53 is forecast at approximately 13,200 short tons if conditions remain favourable throughout the period of the second cuttings of the carnauba palm fronds in December-January 1953, according to a United States report. First cuttings began about mid-August and a yield at least average or better was in prospect. Whether an effort is made to secure maximum production will depend to some degree on developments in the market. Production in 1951-52 amounted to about 12,300 tons.

In the ESSENTIAL OILS market the prices were substantially the same as in the previous week with volume of business also about the same level.

U.S. Drug and Chemical Report

NEW YORK, SEPTEMBER 16
DEMAND for drugs was reported to be showing a seasonal upturn although dollar volume was lessened owing to price reductions in many items during the past year. Inquiry for synthetic and natural VITAMINS was fair, and producers expect an ever increasing market for their products. Demand for INDUSTRIAL ALCOHOL was reported to be fair but supplies remain more than adequate for current inquiry. EUCALYPTOL was priced lower at \$1.70 per lb., down 5 cents. Brazilian MENTHOL lost another 5 cents to \$5.75 per lb. More activity has been noted in the market for BOTANICALS. SENEGA is higher, ranging from \$2.10 to \$2.25 per lb. up 20 cents, with local holders not too anxious to sell material. Bourbon VANILLA BEANS are now \$3.00 per lb., up 25 cents. Dutch CARAWAY SEED was advanced a quarter-cent to 10½ cents per lb. Reports from the growing areas indicate that the SKULLCAP (*Scutellaria lateriflora*) crop is a total failure this year owing to drought. ESSENTIAL OILS lower per lb. were Ceylon CITRONELLA at 60 cents (10 cents); BERGAMOT, \$13.75 (75 cent); CUMIN \$4.90 (10 cents); CAJUPUT, redistilled, \$2.20 (70 cents). Higher were PATCHOULI at \$7.50 (25 cents) and ANISE at \$2.00 (15 cents).

Methylated Spirit

METHYLATORS' rates per gall. in Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 6s. 0½d.; 100 gall. and under 500 gall., 6s. 2½d.; 30 gall. and under 100 gall., 6s. 4½d.; 10 gall. and under 30 gall., 6s. 6½d.; 5 gall. and under 10 gall., 6s. 9½d. Strength 64 o.p., 1d. per gall.; 66 o.p. (B.P.), 2d.; 68 o.p., 2½d.; and 74 o.p. 8d. more than the above rates. Tank wagon delivery: One halfpenny per gall. of list price;—minimum 500 gall. For industrial methylated spirit of standard toilet quality prices are 5d. per gall. above foregoing prices.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 6s. 3d.; 100 gall. and under 500 gall., 6s. 5d.; 30 gall. and under 100 gall., 6s. 7d.; 10 gall. and under 30 gall., 6s. 9d.; 5 gall. and under 10 gall., 7s. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p., in one delivery, 100 gall. and under 500 gall., 6s. 6d.; 30 gall. and under 100 gall., 6s. 8d.; 10 gall. and under 30 gall., 6s. 10d.; 5 gall. and under 10 gall.,

7s. 1d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over, and *methylated shellac finish*, 1d. per gall. over the prices for pyridinised methylated spirit.

TERMS: Delivered free and carriage paid on returned empties; cash one month less 2½ per cent.; packages charged, credited in full on return.

Alcohol

REDUCED prices from September 15 of ethyl alcohol per proof gall. are as follows:—

Plain British Spirit (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 3s. 5½d.; 200,000 and less than 300,000, 3s. 6d.; 100,000 and less than 200,000, 3s. 6½d.; 50,000 and less than 100,000, 3s. 7d.; 10,000 and less than 50,000, 3s. 7½d.; 2,500 and less than 10,000, 3s. 8d. Prices are exclusive of duty and are for tank wagon lots.

The following grades are subject to a premium on the above prices as follows:—

Absolute Alcohol, 99.5 per cent., 74.5 o.p., 2d. more per proof gall.; the special high strength (99.9 per cent., 75.2 o.p.), 4d. more; *Doubly-rectified Alcohol* (S.V.R.), 95.8 per cent., 68 o.p. is 3d. more and *P.I. Rectified Alcohol*, 96.1 per cent., 68.5 o.p., 7d. more. *R.R. Absolute Alcohol* (re-rectified, 99.7 per cent., 75 o.p.), 13s. 6d. per bulk gall. net.

Pharmaceutical Chemicals

ACETANILIDE.—1-cwt. lots are 2s. 11d. per lb. for crystals and 3s. per lb. for powder.

AMIDOL.—In 14-lb. lots the price is 19s. per lb.; 7-lb., 19s. 6d.

AMMONIUM CARBONATE. — B.P. lump is £71 5s. per ton; POWDER, £74 5s. BICARBONATE is £47 15s. per ton, all delivered free United Kingdom in non-returnable packages.

AMPHETAMINE.—BASE is 130s. per kilo, and SULPHATE, 110s., as to quantity. *d*-AMPHETAMINE is from 640s. per kilo.

ATROPINE — Rates per oz. are:—ALKALOID, 58s. 9d.; 4-oz., 58s. 3d.; 25-oz., 57s. 9d.; SULPHATE, 48s. 9d.; 4-oz., 48s. 3d.; 25-oz., 47s. 9d. Lower quotations for larger quantities. METHYL NITRATE in 4-oz. lots is 78s. 6d. and METHYL BROMIDE, 76s. 6d. per oz.

BARIUM SULPHATE.—1-cwt. lots of B.P. (x-ray) are 1s. 5d. per lb. and 5-cwt., 1s. 4d. per lb.

BENZOIC ACID.—1-cwt. lots are 3s. 0½d. per lb. The SODIUM SALT is 2s. 10½d. per lb. in 1-cwt. lots.

BENZOCAINE. — 28-lb. lots and upwards are 27s. 6d. per lb.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	1-cwt.		28-lb.		7-lb.	
	s.	d.	s.	d.	s.	d.
CARBONATE ...	28	2	28	5	32	10
SALICYLATE ...	24	5	24	8	28	6
SUBGALLATE ...	23	6	23	9	27	6
SUBNITRATE ...	24	5	24	8	28	6

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates.

BORAX.—Prices for B.P. grade, for quantities of 1 ton and upwards are as follows:—Granular, £48 10s.; crystals, £51; powder, £52; extra-fine powder, £53 per ton. Prices of commercial range from £39 10s. to £44 per ton, as to type, and dehydrated borax is now £60 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for small quantities as for boric acid.

BORIC ACID.—Prices for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £81; crystal, £88; powder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 5s.

CALCIUM CARBONATE. — B.P. is £28 per ton, delivered U.K.

CALCIUM CHLORIDE. — B.P. crystals are 1s. 0½d. per lb. in 1-cwt. lots and exsiccated, 9½d.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 3d. to 12s. 3d. per lb.

CHLORIBUTOL.—28-lb. lots are at the rate of 13s. 6d. per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CINCHOPHEN.—1-cwt. lots are quoted at 24s. 9d. per lb., with smaller quantities up to 27s. 9d. per lb.

COCAINE. — Rates per oz. are as follows: ALKALOID and SALICYLATE, bottle ¼-oz., 27s. each; ½-oz., 53s. each; 1-oz. 104s.; 4-oz., 103s.; 8-oz., 102s.; 16-oz. 101s.; tins, 25-oz., 100s. HYDROCHLORIDE and NITRATE, bottles, ¼-oz., 24s. 6d. each; ½-oz., 48s. each; 1-oz., 94s.; 4-oz., 93s. 3d. 8-oz., 92s. 3d.; 16-oz., 91s. 6d.; tins, 25-oz. 90s. 6d.

CREAM OF TARTAR.—Rates for the home trade are as follows:—1-ton lots, 231 per cwt.; 10-cwt., 232s.; 5-9-cwt., 233s. 2-4-cwt., 234s.; 1-cwt., 235s., delivered.

CREOSOTE.—B.P. quality, ex beechwood is quoted at from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—Price of B.P. quality from dis-
lers is 7s. 9d. per gall. in 5-gall. lots.

DIPHENAN.—Prices range from 58s. to
s. per lb., according to quantity.

HYDROXYANIC ACID.—Dilute, B.P.C., is
om 1s. 4d. to 1s. 11d. per lb., as to quan-
ty; Scheeles is from 1s. 8d. to 2s. 3d.

PILOCARPINE.—In 25-oz. lots prices are :
KALOID, 56s. per oz.; HYDROCHLORIDE,
s. per oz.; NITRATE, 42s. per oz.

POTASSIUM PERMANGANATE.—Rates for
aterial packed in 1-cwt. drums are as
lows :—

QUANTITY	B.P., per lb.	TECHNICAL, per cwt.
1 cwt.	1s. 9½d.	191s.
3 cwt.	1s. 9d.	187s.
5 cwt.	1s. 8½d.	182s.
1 ton	1s. 8d.	177s. 6d.
5 tons up.	1s. 7½d.	173s.

SALICYLIC ACID.—Prices are : 5-cwt. lots
bulk, 2s. 11½d. per lb.; 1-cwt., 3s.;
-lb., 3s. 7d.

TANNIC ACID.—Home-trade rate for
vis B.P. (ex ether) in 1-cwt. lots is
9d. per lb.

ZINC OXIDE.—B.P. Increased. Rates (per
n) are as follows :—2-ton lots, £163; 1-
a, £164; 3-cwt., £166; less than 3-cwt.,
69.

Crude Drugs

ALOE.—Prime Cape is about 157s. 6d.
r cwt., c.i.f., and spot, 180s. Curaçao is
8s. per cwt., spot.

ANISE.—Chinese STAR is 365s. per
t., c.i.f.

BALSAMS.—*Canada*: Spot is 27s. 6d. per
for clear bright, paper - filtered; for-
ard, 25s. 6d. per lb., c.i.f.; *Copaiba*:
ra is offered on the spot at 13s. 6d. per
lb., duty paid. Peru is 14s. per lb., duty
id, and 12s. 9d., c.i.f. *Tolu* (genuine as
ported) on the spot is 26s. 6d. per lb.,
original cases, and for shipment, 23s. 6d.
f.

BUCHU.—Short round leaves are offered
2s. 1d. per lb., on the spot.

ERGOT.—New-crop offers of Portuguese
e 16s. per lb., c.i.f. Spot supplies are
s. per lb.

GUM ACACIA.—Kordofan cleaned sorts
the spot are 105s. per cwt.; September
pment, 98s.

IPECACUANHA.—Forward offers of Nicar-
uan, September-October shipment, are
m 42s. to 44s. per lb., c.i.f., and Colum-
n, 38s., c.i.f. Spot quotations are :
caraguan, 46s., and Colombian, 42s.

MERCURY.—Spot quotations are from £65
£65 10s. per flask, ex warehouse.

NUTMEG.—Quiet. West Indian 80's
oted at 3s. 3d. per lb. on the spot and
6½d., c.i.f. for shipment East Indian
cases for shipment, 2s. 11d., c.i.f.

PAPAIN.—East African, grade 1 is 40s.
per lb.; Ceylon white, 41s., and Sun-dried,
36s., on the spot.

PEPPER.—White Sarawak on the spot is
12s. 3d. per lb. ex wharf and 11s. 6d.,
c.i.f., October shipment. Black Malabar
is 1,450s. per cwt., spot.

QUASSIA.—Chips on the spot are avail-
able at 34s. 6d. per cwt.; forward offers
are 32s. 6d., c.i.f.

QUILLAIA.—Forward rates for whole
bark are £95 per ton., c.i.f.

RHUBARB.—Quiet. Shensi is 11s. 6d. per
lb.; Double Deer No. 1, 8s.; other grades
of Chinese rough round at from 3s. 9d. to
6s., all duty paid.

SAFFRON.—Mancha superior is offered
at about 175s. per lb. on the spot for small
lots.

SANDARAC.—Morocco is offering on the
spot at 18s. per lb.

SARSAPARILLA.—Unchanged. Jamaican
native red is about 2s. 6d. per lb., on the
spot.

SEEDS.—**ANISE.**—Quiet. Cyprus is 150s.
per cwt., duty free; Turkish, 145s., duty
paid. **CARAWAY.**—Dutch, sellers are firm
at 95s., duty paid. **CELERY.**—Unchanged.
Indian, 1s. 10½d. per lb. A little French
is now offering at 2s. 3d. per lb., duty
paid. **CORIANDE.**—Market weak. Spot
Morocco is quoted at 42s. 6d. per cwt.,
duty paid, although business has been re-
ported done at lower prices. Shipment,
Morocco has now eased to 36s., c.i.f., for
September - October shipment. **CUMIN.**—
Market unchanged. Spot, Cyprus is 185s.
per cwt.; Morocco, 200s., duty paid; In-
dian, 200s. **DILL.**—Indian offering at 80s.
per cwt., spot London. **FENNEL.**—Spot,
Indian 197s. 6d. per cwt.; French, 185s.,
duty paid. **FENUGREEK.**—Market easier.
Morocco is now 44s. per cwt., duty paid,
ex store, London or Liverpool. For ship-
ment, 34s., c.i.f., now quoted. **MUSTARD.**
—English firm from 85s. to 110s. per cwt.,
according to quality.

SENEGA.—Spot supplies are 14s. per lb.
First - hand sellers at origin are asking
15s. 6d. per lb., c.i.f., and re - sellers,
12s. 9d., c.i.f.

SENNA.—*Tinnevely* wet-crop quotations
(c.i.f.) are : LEAVES : Prime No. 1, 1s. 4d.
per lb.; No. 2, 1s. 1½d.; No. 3, 9d.; PODS :
f.a.q., October shipment, 1s. 4d.; hand-
picked, 2s. to 2s. 6d. *Alexandria*: Manu-
facturing PODS, 1s. 9d., c.i.f.; hand-picked
4s. 6d. to 7s., spot.

SHELLAC.—Steady. Spot quotations
are :—F.O.T.N., pure, 190s.; F.O. stan-
dard No. 1, 210s.; fine orange, 230s. to
285s. per cwt., ex-London warehouse.

SQUILL.—Italian white new-crop is
offered from origin at 57s. 6d. per cwt.
c.i.f. London. Spot is from 60s. per cwt.

STROPHANTHUS. — *Kombé*, 100 per cent. is quoted at 16s. per lb., on the spot, and *Gratus*, 27s. 6d. per lb.

STYRAX. — Spot is 7s. 3d. per lb., duty paid.

TRAGACANTH. — No. 1 ribbon on the spot is £135 per cwt.; No. 2, £120; No. 3, £80.

TURMERIC. — Madras finger on the spot is 62s. 6d. per cwt., and forward, 56s. 6d., c.i.f.

VALERIAN. — Indian is offered at 135s. to 137s. 6d. per cwt., spot. Belgian at about 200s.

WAXES. — **BEES'.** — Dar-es-Salaam on the spot is 420s. per cwt., shipment, September-October, 375s., c.i.f. Benguela on the spot is 400s. per cwt., in bond; shipment, 365s., c.i.f. **CANDELILLA.** — Spot supplies are offered at 645s. per cwt.; no shipment offers. **CARNAUBA.** — Prime yellow, spot, 1,225s. per cwt.; no shipment offers. Fatty grey, spot, 910s. per cwt., and 870s., c.i.f. for shipment. **MONTAN.** — Reibeck crude on the spot is 135s. per cwt. **OURICURI.** — Spot. 0.5 per cent. impurities, 700s. per cwt. **SPERMACETI.** — Case lots are 2s. per lb.

Essential and Expressed Oils

ANISE. — Firm. Spot supplies are offered at from 8s. 9d. to 9s. per lb., and for shipment, 8s. 7½d., c.i.f.

CARDAMOM. — English-distilled is from 425s. per lb. for spot material, and imported, 350s. per lb.

CINNAMON. — B.P. oil on the spot is quoted at from 65s. to 70s. per lb. English bark oil is offered at 22s. 6d. per oz., Ceylon leaf, 9s. 3d. per lb., spot, for 5-cwt. lots.

CITRONELLA. — Spot prices for original drums are: Ceylon, 3s. 9d. per lb.; Formosa, 4s., in bond; Java, 4s. 6d. in bond. Forward: Ceylon, 3s. 9d.; Formosa, 3s. 7d., and Java, 4s. 3d., all c.i.f., September shipment.

CLOVE. — English-distilled oil is 50s. per lb., nominal, with imported oils from 21s. 6d. Madagascar leaf on the spot is 12s. 9d. per lb. duty paid, and 10s. 9d., c.i.f., for shipment.

COD-LIVER. — Medicinal, B.P., is 11s. 6d. per gall. in charged returnable drums to retailers. Veterinary is from 11s. 4d. per gall.

CORIANDER. — Russian-seed oil is 175s. per lb. Dutch-seed oil, 170s. per lb.

CUBEB. — English-distilled is offered at from 50s. to 55s. per lb. Imported is quoted at 60s. per lb.

DILL. — English-distilled oil is quoted at about 65s. per lb. for B.P. quality. Imported oils are offered at 40s. per lb. with East Indian at 30s., spot.

FENNEL. — Spanish sweet on the spot is quoted at from 9s. to 12s. 9d. per lb.

GERANIUM. — Bourbon on the spot is 85s. per lb.

LEMON. — Sicilian hand-pressed (4 per cent. citral) is quoted at from 40s. to 46s. per lb., c.i.f.; spot is from 40s. to 50s. according to quantity and holder.

PATCHOULI. — Spot supplies of Penang are offered at 58s. 6d. per lb., and forward, 52s. 6d., c.i.f.

WORLD TRADE

France Reimposes an Import Duty. — The French Customs authorities have re-established a 30 per cent. import duty on phthalic acid and its salts.

Austria to Export Sulphuric Acid. — Production of sulphuric acid in Austria has increased to such an extent that an export surplus is now available.

Canadian Plants for Sterling Area? — The Canadian company Shawinigan Chemicals, Ltd., is considering the possibility of producing chemicals in the sterling area. The plants would produce industrial chemicals based on calcium carbide and would probably be built in the United Kingdom and in South Africa.

German Pharmaceuticals Exports. — The value of West German exports of pharmaceuticals was 74 million marks in the first half of this year against 90 million marks in the same period last year. The decline was attributed to lower exports of medicines and to a decrease in world market prices for pharmaceuticals. The share of patent medicines in total pharmaceutical exports was 35.5 per cent., against 38.1 per cent. in January-June 1951. Exports of alkaloids also dropped. The share of crude drugs, however, rose from 45.6 per cent. to 46.6 per cent.

India to Export Mercury? — The Indian Ministry of Commerce and Industry is considering whether to allow the re-export of mercury, but has given no indication yet of the Government's attitude. Trade circles are meanwhile rather guarded in their dealings. When it was first rumoured that the Government would permit the re-export of mercury, prices rose from 320 rupees per flask on September 4 to 360 rupees on September 8. On September 16, however, the price was down to 350 rupees. Traders think that, if re-exports are permitted, the price may rise to 450 rupees per flask. Stocks are put at 23,000 flasks with the country's annual requirements at around 5,000 flasks.

MEDICAL ABSTRACTS

Taste Lost After Methylthiouracil.—Mannenberg ("Journal of the American Medical Association, 1952.149.1091-93) reports that two women patients suffering from thyrotoxicosis underwent a loss of the sense of taste twenty days and two weeks respectively after commencing to take 600 mgm. per day of methylthiouracil. The senses returned to normal six weeks and one month respectively after the drug ceased to be taken.

Isoniazid In Tuberculous Meningitis of Children.—Four children with tuberculous meningitis were treated by Sweetnam and Murphy ("Lancet," 1952. 263, 160-61) with isoniazid either alone or combined with streptomycin for eight to ten weeks. One of the children became clinically well within a week. The other three cases started initially with streptomycin and later with isoniazid or with the two drugs together gave equivocal results.

A New Adrenal Cortex Hormone?—Nelson, Tait and Bush ("Lancet," 1952. 3.226-27) have shown that extracts of adrenal venous blood from a monkey and dog contain a substance active in its effect on the urinary $\text{Na}^{24}/\text{K}^{42}$ ratio of adrenalectomised rats. The salt-retaining effect was the same as that previously obtained with an extract of the adrenal gland. The authors conclude that the substance may reasonably be described as a mineralocorticoid.

Camouquin in Malaria.—Singh and Kalnium ("British Medical Journal," 1952, 3.12-15) find that Camouquin, 4-(3'-di-*n*-propyl-amino-methyl-4'-hydroxyanilino)-7-hydroxyquinoline, is superior to proguanil and mepacrine in the treatment of malaria. In malignant tertian malaria it was superior to chloroquine in controlling fever and asexual parasitaemia. In benign tertian malaria, fever was controlled earlier with camouquin, but in a few cases there was a slight difference in the rate of clearance of parasitaemia in favour of chloroquine.

Treatment of Tinea Pedis.—Reviewing recent studies of the incidence of tinea pedis, the "Lancet" (1952.1.1152) mentions percentages of 23 in all groups of the Army and 11 in recruits. Among remedies, dithranol (1 per cent. as ointment) was found by Davies ("Journal of the Royal Army Medical Corps, 1952. 99) to be the most effective but also the most likely to cause severe reactions. Castellani's paint was almost equally effective.

Whitfield's ointment and brilliant green were relatively ineffective, their use being often followed by relapses, and "the newer fungicides have not fulfilled early hopes." Phenyl mercuric nitrate tends to cause sensitisation; and zinc undecylenate is relatively ineffective. Best results follow application of Castellani's paint at night and 3 per cent. salicylic acid powder in the morning.

Compound 20 in Place of Curare.

Clinical trials are recorded by Bodman and others ("Lancet," 1952.2.517) of a new synthetic curarising agent whose chief advantage (which "has not concerned us in this trial") is that it can be synthesised from materials readily available in this country. The compound, laudolissin, has been used during general anaesthesia in close on 200 cases and found to have curarising properties very similar to those of *d*-tubocurarine, except that its action lasts longer. No important side-effects were detected. The authors comment: "So long as further trials with this drug confirm our findings, we think that compound 20, of all the relaxants we have had occasion to use since their introduction into anaesthesia, could best take the place of *d*-tubocurarine for surgical relaxation." The material was supplied by Allen & Hanburys, Ltd.

Always Ready to Learn.—Last week I had a kind of busman's holiday attending the British Pharmaceutical Conference at Nottingham, and I found that the buses our pharmacist brethren drive are pretty complex affairs. Early in the proceedings a paper on the structural requirements for antibiotic activity in the chloramphenicol series showed me how little I know of modern pharmacological chemistry; after which the *coup de grâce* was administered by a discussion on polarographic determination of riboflavin. I gathered from the cognoscenti that the standard of the more esoteric papers was as high as the standard of those I could understand. In a symposium on the pharmacy of antibiotics there were some interesting remarks on what the pharmacist can teach the doctor; and, though some dissentients thought that physicians resented any such attempt, I for my part am willing to learn about all new drugs from any informed person—as indeed most of us are.—*A peripetetic correspondent in the "Lancet."*

TRADE MARKS

From the "Trade Marks Journal," September 3

For pharmaceutical preparations (5).

NEO-FERRUM, 701,836, by Crookes Laboratories, Ltd., London, N.W.10. CAMPHODIONYL, 707,749, by Jacques Dupuis, France. IMMUCILLIN, 707,799, by Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfurt-am-Main - Hoechst, Germany. BECOPLEX, HEMOPLEX, 708,557-58, by Paines & Byrne, Ltd., Greenford. RICOTIV, 708,868, by John Richardson & Co., Leicester, Ltd., Leicester. NEPRESOL, 709,150, by Ciba, Ltd., Basle.

For parenteral injections and suppositories for the treatment of mental conditions (5).

PSYCHIL, 704,780, by Société Anonyme des Laboratoires du Docteur Débat, Paris, France.

For preparations for the extinction of moths (5).

MOTHOWIX, B705,647, by James Smith McKee, Chalfont St. Giles, Bucks.

For deodorants (5).

BLUE ICE, B706,634, by Delavelle (G.B.), Ltd., London, N.1.

For medicated flannel for human use (5).

DOLS, B707,257, by Dols' Volatalise Flannel, Ltd., London, E.C.2.

For medicated confectionery (5).

SEPTIMUS TWENKS, 708,248, by Roland Fletcher Hall, Manchester.

For all goods (5).

SAY SO, 708,517, by Matthews Laboratories, Ltd., London, N.7. SEAHORSE, 708,518, by Ward, Blenkinsop & Co., Ltd., London, W.1.

For pharmaceutical preparations for human and veterinary use (5).

ENDOCIL, 706,520, by Organon Laboratories, Ltd., London, W.C.2. NICIZINA, 708,321, by Società Anonima Farmaceutici Italia, Milan, Italy.

For sunglasses (9).

CONSORT, 709,261, by Thurgar Bollé (Successors), Ltd., Wellingborough, Northants.

From the "Trades Marks Journal," September 10.

For agricultural and horticultural chemicals (1).

SPIDREX, 707,612, by Boots Pure Drug Co., Ltd., Nottingham.

For industrial chemicals (1).

RESOCOL, 707,933, by Sandoz, A.G., Basle, Switzerland.

For chemicals used in the manufacture of perfumes (1).

GALLICOL, 708,897, by Usines de L'Allondon, S.A., Geneva, Switzerland.

For non-medicated toilet preparations containing calamine (3).

LACTO-CALAMINE, 698,432, by the Crookes Laboratories, Ltd., London, N.W.10.

For dentifrices (3).

FILODENT, 708,266, by Boots Pure Drug Co., Ltd., Nottingham.

For herbal drops (5).

SIMBAS, 706,060, by George & Son, Ltd., Southend-on-Sea.

NEW GERMAN PROPRIETARIES

FLUOMINT-LYSOFORM (Lysoform with potassium fluoride (15 drops approx. = 1 mgm. fluorine)) for adding to mouthwashes. Issued in bottles of 70 gm by Lysoform, Dr. Hans Rosemann, Berlin-Schöneberg, Dominicusstrasse 43 (*Dtsch Apothekerztg* February 29).

NEO-BRIDAC (maleic acid salt of N-dimethyl amino-ethyl-N-para methoxy-L-aminopyridine). Active well tolerated antihistamine indicated in urticaria, pruritis and erythema of allergic origin serum sickness and asthma. Issued in packs of 1 and 20 sugar-coated tablets (0.05 and 0.1 gm.) and of 3 ampoules (0.05 gm.) by Bayer, Leverkusen (*Dtsch Apothekerztg*, January 25).

DYSPNOCED ASTHMA POWDER (nicotylamide ephedrine hydrochloride, atropine methylbromide theobromine, phenylethyl barbituric acid and amino-phenazone in molecular combination) for bronchial and cardiac asthma prophylaxis. Dosage $\frac{1}{2}$ to 1 powder daily. Issued in boxes of 10 powders by Dr. Böwing, Chem.-Pharm. Präparate Berlin-Grunewald (*Pharm. Ztg.-Nachrichten*, January 15).

PRINT AND PUBLICITY

New Make-up Base.—Advertising in the national magazine Press will announce the new make-up base Vision Klear by L. Leichner (London), Ltd., 30 Acre Lane, London, S.W.2. Display material will include an 8 x 7-in. showcard featuring Miss Elizabeth Allan, star of film and television; descriptive 4-p. leaflets; and a display stand with the Leichner posy.

Medical Leaflets.—Leaflets, folders and booklet are obtainable from manufacturers as listed below:—

BOOTS PURE DRUG CO., LTD., Station Street Nottingham: "Neumandin" (4-p. leaflet); "1285 Glove Powder—Boots" (4-p. leaflet).

BURROUGHS WELLCOME & CO., 183 Euston Road London, N.W.1: "Pethidine Hydrochloride, F.W. & Co."; "Histatin"; "Banocide"; "More Than Forty years of Infundin"; "Below Surface Attack—Tineafax" (4-p. leaflets).

GLAXO LABORATORIES, LTD., Greenford, Middlesex: "Eltroxin" (4-p. leaflet); "Remembering to Forget" (4-p. leaflet on Ostocalcium); "Dee Roots" (4-p. leaflet on Glaxo penicillin preparations); "This is Glaxo" (4-p. leaflet).

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., Fulshaw Hall, Wilmslow, Manchester: "Your First Aid—Cetavlon Cream" (4-p. leaflet).

MENLEY & JAMES, LTD., Coldharbour Lane, London, S.E.5: "Bephen" (8-p. leaflet).

PAINES & BYRNE, LTD., Pabryn Laboratories, Bilton Road, Greenford, Middlesex: "Vita-nine and "Thyrodex" (information cards).

ROCHE PRODUCTS, LTD., Welwyn Garden City Herts: "Saridone for Pain" (blotter).

THE ARMOUR LABORATORIES (Armour & Co. Ltd.), Lindsey Street, London, E.C.1: "Tryptas" (two 24-p. booklets; a 1-p. leaflet; and cyclostyled information).



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J. & C. 14, St. James's Street, London W.C. 2

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